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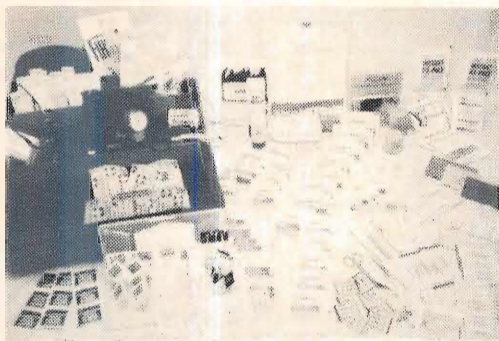
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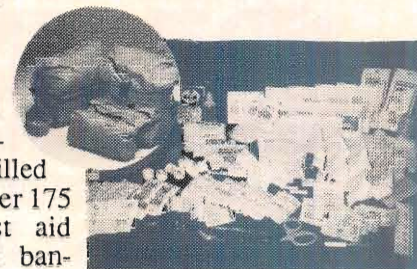
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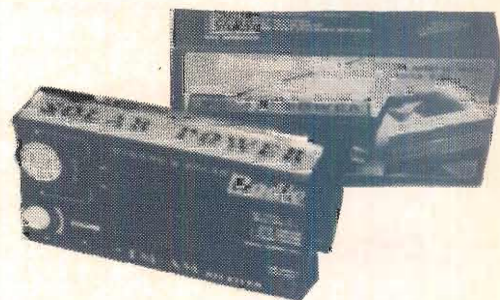


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AMERICAN SURVIVAL

The Magazine of Self Reliance

GUIDE

NOVEMBER 1990 VOLUME 12 NUMBER 11

COVER:
Winchester's 1300 Stainless Marine 12 gauge pump shotgun with Sandstrom 9A anti-corrosion phosphate coating. See page 24 (Photo by Scott Stoddard).

Survival Weapons

Winchester Stainless Marine Shotgun	24
Taurus 85S .38 Special Revolver	32
Armstrong M14 Rifle	46

Survival Gear

Mach V Sport Launcher	20
Sogwinder Knives	22
Soft Shell Truck Tent	34
Nuwick 120-Hour Candle	38
Blackjack Kukri Knife	44
Short Kutt Pocket Chain Saw	48

Health and Food

AlpineAire Storage Food	36
-------------------------------	----

Survival Living and Environments

Deep Freeze Survival	26
High Country Hunting	28
Survival in Space	52
Pro-Gun Dachau Survivor	62
Doomsday Machine	72

Survival How-To

Deep Cycle Batteries	16
Long Range Handgun Shooting	56

Departments

To the Point	6	Giveaway '90 No. 1 Winners	67
Survival Line	8	Classified Ads	70
Books / Videos	10	Mail Call	71
New Products	12	1990 Giveaway No. 3	78



Page 16



Page 26



Page 56

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SUBSCRIPTIONS. U.S. and U.S. possessions: \$23.95 for 12 issues; \$39.95 for 24 issues. All other countries: \$42.95 for 12 issues; \$79.95 for 24 issues. Payment in U.S. currency only. American Survival Guide Subscription Department, McMullen Publishing, P.O. Box 70015, Anaheim, CA 92801-0015. Allow 8-10 weeks for delivery of first issue.

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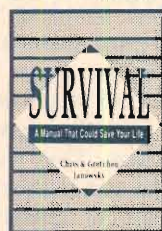
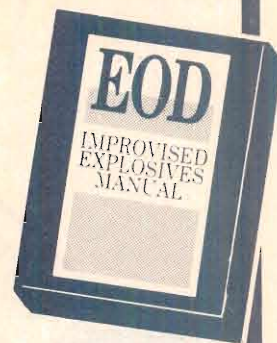
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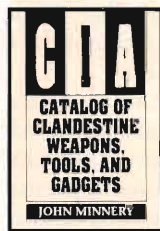


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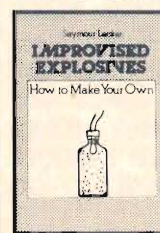
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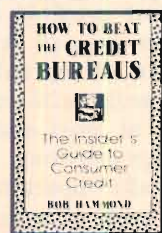
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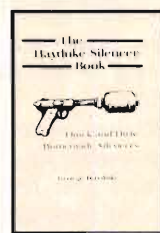
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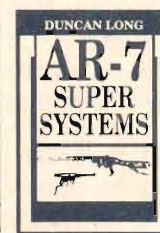
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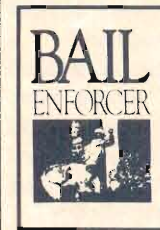
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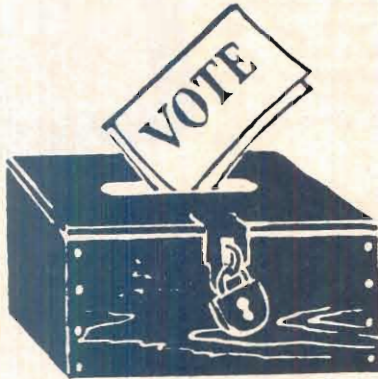
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TO THE POINT



Election Day: your chance to let the anti-gun-ownership movement know where they can go...

THE other day a friend handed me a solicitation letter from Handgun Control, Inc. On the outside front of the envelope in letters almost half an inch high are the words: 'ENCLOSED: YOUR FIRST REAL CHANCE TO TELL THE NATIONAL RIFLE ASSOCIATION TO GO TO HELL!'

Inside the envelope is a request for money for HCI's "Campaign Two Million Strong." "I want to give..." it says. "I know that Handgun Control, Inc. is fighting against one of the biggest and richest special interest lobbies in Washington—the militant NRA. Enclosed is my contribution, and name, to help Handgun Control, Inc. grow and win the fight to keep handguns out of the wrong hands and outlaw military-type assault weapons."

Below all this is a coupon addressed to "The U.S. Congress" which says: "You work for me. So I want you to know that I support passage of new national laws that *mandate* a waiting period for all handgun purchases... *ban* Saturday Night Specials... and *outlaw* military-type assault weapons — no matter what the NRA says! Please let me know your position."

The terrible hatred, lies, bigotry and prejudice promoted by this arrogant, anti-freedom organization which is fawningly courted and catered to by our essentially puppet (for the political left) mass media must be exposed if we are to preserve freedom in this country. We, the responsible, law-abiding firearms owners and enthusiasts must unite as never before to oppose HCI and the rest of the anti-gun-ownership movement before it's too late. With the invaluable aid of their

puppets in the press they are waging a massive and bitter war against firearms ownership and freedom in this country with greater strength than they have ever had before.

That is why it is absolutely essential that each and every one of us who believes in the right—the inalienable right, not some government-granted right—to responsibly possess and use firearms, REGISTER and VOTE against the tyranny of the arrogant, elitist anti-firearm-ownership politicians who seek to control our lives.

This is probably the last time I'll have a chance to speak with many of you before Election Day this year.

We gun owners have taken a terrible beating from the hateful zealots of the anti-gun-ownership movement over the past two years as a result of their virtual control of much of the mass media and many politicians and other influential people in society.

On Election Day it will now be your turn to speak, to let these people know you're out there and how you feel. Every vote counts in this bitter battle to keep our guns and preserve liberty.

Oh, I know, you've heard all this before. I know that some of you at least won't be voting. Maybe you never did before and, for whatever your reasons, you can't see yourselves doing it now. But think a minute. This is *just* what the anti-gun-ownership zealots are praying for and expecting of you. They're expecting you to bury your head in the sand, or turn tail and run and hide somewhere. Here in California, gun owners disgusted with the turn of events, are moving to states where they *think* they'll get a better shake with their guns. But *this is just what the anti-gunners want!* Your leaving means less opposition for them, an easier time to push their agenda.

And for those of you who are bailing out of California, or New Jersey or somewhere else with restrictive gun laws and the stupid and left-wing politicians who promote them, you won't get far enough away. What you've escaped this year will catch up with

you next year where you go, or the year after that.

It's high time we *ALL* faced up to the fact that the anti-gun-ownership movement wants *ALL* the guns in civilian hands and will not stop until they get them—unless you, the organized gun owners stop them. They continue to gain in strength and numbers with the invaluable aid of massive amounts of favorable publicity day after day after day.

This is why we *MUST* unite and organize as never before. We can start at the polls by letting the politicians know we're out there and we're angry as hell at them. So make sure you REGISTER now and VOTE on Election Day. This at least is a start in the right direction. Vote and keep on voting at the polls. Get involved in politics and support the pro-gun candidates. If they sell out to the anti-gun-ownership crowd, make sure you vote against them or at least don't vote for them in future elections.

As I said, voting is vitally important. But there are other ways of voting besides casting your ballot on Election Day. We can and *MUST* also vote with our money. That is, by boycotting companies which support gun control, boycotting advertisers for anti-gun-ownership media, boycotting movie stars who promote harsh gun control, etc.

Take a look at Raymond Steele's article, "Doomsday Machine" on pages 72-74 of this issue, and see the sidebar about the "Media Face-Off Kit" on page 74. This will give you some ideas on how we can begin to organize against the leftist-dominated mass media which is propagandizing constantly to brainwash the public into opposing, reasonable and lawful firearms ownership and uses.

But above all, don't forget about Election Day. It's your first real chance since the unprecedented wave of anti-gun hysteria was whipped up almost two years ago to tell HCI and the rest of the anti-freedom, anti-firearms-ownership movement to go to hell! — Jim Benson.

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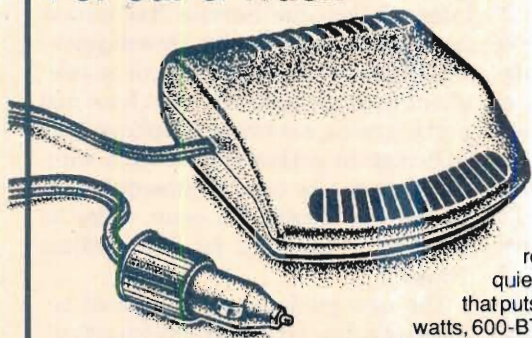
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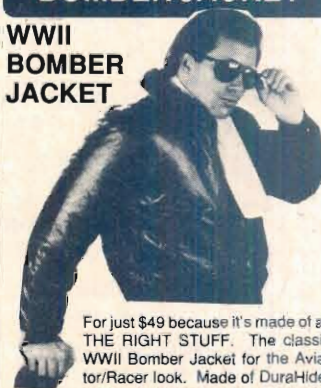
Sword Cane



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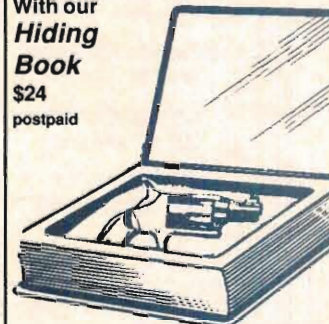
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SURVIVAL LINE

*Mossberg wants locks for all guns,
'Looking Glass' grounded, cordless phone bugs
allowed, earthquake jitters. . .*

THAT the anti-gun lobby is forever looking for new ways and laws to hinder lawful gun ownership should come as no surprise to the gun owners of America. For years the anti-gun crusaders have been able to count on the likes of Senators Edward Kennedy and Howard Metzenbaum to push forward even the most ridiculous and restrictive firearms legislation.

Sadly, the anti-gun forces now seem to have enlisted the aid of a most unlikely ally—the O.F. Mossberg & Sons company of Connecticut, one of the nation's leading shotgun manufacturers. At a recent press conference in Washington, D.C., Alan I. Mossberg, president of the company, called for the passage of legislation requiring gun locking devices for every one of the nation's estimated 200 million firearms in private hands. Mossberg said that he would push for federal legislation which would make it a criminal offense to possess a weapon without such a locking device. When asked whether gun owners could reasonably be expected to lock up guns kept at home for self defense, Mossberg said, "It's another discipline we are going to have to accept—such as locking the doors."

You might want to write Mr. Alan I. Mossberg at O.F. Mossberg & Sons, Inc., 7 Grasso Avenue, North Haven, CT 06473, and let him know what you think of his proposal to force every law-abiding gun owner to buy a locking device for each and every one of his or her guns.

Looking Glass Grounded — The Department of Defense is discontinuing round-the-clock flights of its emergency flying command post known as "Looking Glass."

The Looking Glass flights began in February 1961 during the height of the Cold War. For the past 30 years at least one of the flying command posts has been airborne at all times. The aircraft, a fleet of nine Boeing 707s, were designed to duplicate the functions of the underground command post of the Strategic Air Command at Offutt Air Base in Nebraska.

Each Looking Glass flight was commanded by an Air Force general who was to assume control of the U.S. nuclear forces in the event of a surprise attack which killed the president and other members of the national command authority. A Pentagon spokesman said that the Looking Glass planes will be kept on "ground alert status" and will fly "random air sorties each week." If needed the planes could resume their round-the-clock flights at any time.

The grounding of the flights was ordered by the president because of the continuing decrease in tensions with the Soviet Union. The action is also expected to save the Air Force some \$20 million a year.

Cordless Phones and Taxes — The Internal Revenue Service has issued new guidelines for its investigators which permit them to listen in on telephone conversations where at least one party is using a cordless telephone. The information gathered from such wireless taps can be used to prosecute suspected tax cheats. No court order or warrant is required for the cordless "bugs."

The new guidelines came about because of a January Supreme Court ruling which upheld an earlier federal appeals court decision that said conversations on cordless telephones are not subject to federal privacy laws. The court held that both police agencies and prosecutors are free to use information acquired through the interception of cordless telephone conversations.

Earthquake Jitters — In last month's Survival Line it was reported that the South Mississippi County School District in Wilson, Arkansas, canceled classes for Dec. 3 and 4 because of an earthquake prediction by climatologist Iben Browning. He has predicted a high probability of a quake occurring along the New Madrid fault for those days.

A second school district in Arkansas, the Earle School District in West Memphis, has now announced that it will also cancel classes for those two days. ●

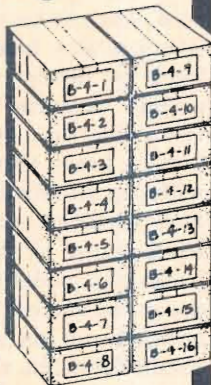
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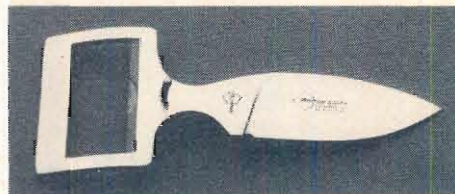
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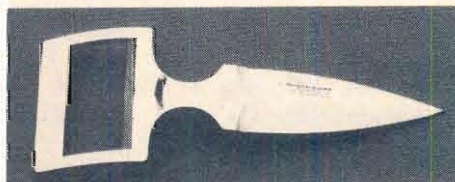
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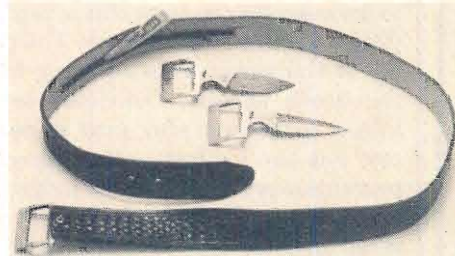
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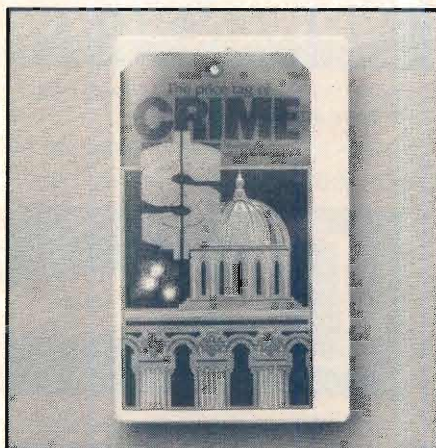
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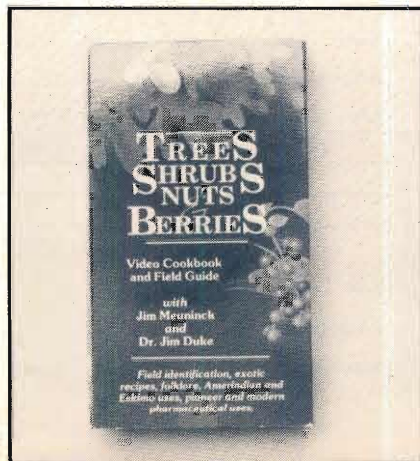
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BOOKS/VIDEOS



The Price Tag of Crime, a video produced by Red Barn Video Productions, P.O. Box 41122, Dept. ASG, Sacramento, CA 95841; (916) 361-2722. VHS, 28 minutes. \$19.95.

Learn how the liberal agenda in the state of California and likewise all across the nation has left us wide open to the predation of street thugs, rapists, drug addicts and murderers. The people of California want to bring back the death penalty. Convicted serial killers spend year after year on death row but the endless appeals process prevents executions. Lenient judges let criminals go free. Murderers get out of jail in seven years even though given life sentences. Have the theories of criminal rehabilitation worked? And if not, why do these entrenched politicians kill every bill having to do with increased prison time, and harsher penalties for criminals? We spend millions and millions of dollars in higher insurance rates, increased prices for consumer products, and higher taxes because crime has become so rampant. Details of the inner workings of the liberal political machine will show you why we pay such a high price.



Trees, Shrubs, Nuts and Berries, a video cookbook and field guide with Jim Meuninck and Dr. Jim Duke. Media Methods, 24097 N. Shore Dr., Edwardsburg, MI 49112; (616) 699-7061. VHS, 60 minutes. \$29.95 plus \$3 shipping.

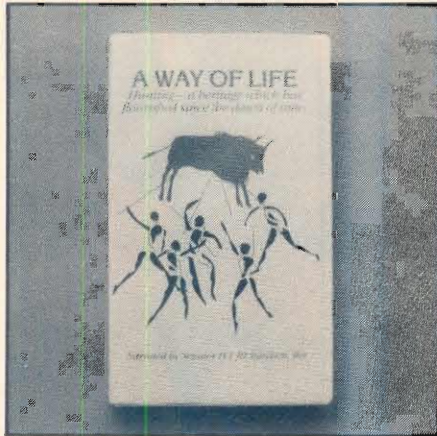
Most edible plant manuals give lots of information on plant identification and little in the way of practical uses. This unique video helps you identify trees and shrubs that produce edible wild nuts and berries. Meuninck then demonstrates how to use these wild foods in delicious recipes. Discover unique desserts, soups and savories made from edible wild nuts and berries. Learn to cook nuts and berries with fish, shellfish, buffalo and poultry. Folk medicine and Indian uses are cited, many of the cures have been back up by modern medicine. Self diagnosis and herbal medicine treatments however, are not recommended. See a doctor first. The video was shot in the nation's National Parks and there's some interesting footage of Mt. St. Helens showing the varieties of edible plants blossoming in this once devastated area.



U.S. Navy Seals and Seals in Vietnam, videos from Paladin Press, P.O. Box 1307, Dept. ASG, Boulder, CO 80306; (800) 642-8300, Ext. 24. VHS, 30 minutes each. \$29.95 each or both for \$55.

These two videos detail the development and deployment of the highly trained, elite fighting force known as the Navy SEALs. SEALs have been used to carry out special guerilla operations of stealth, sabotage, and silent death in Vietnam, the Middle East, Grenada and Panama. UDTs (under-

water demolition teams), the precursors to the SEALs were used in WWII and Korea. Each video includes rare footage never before released to the public. Voice-overs of SEAL vets tell you in their own words what it was like to go out on deadly excursions deep into enemy territory and the special skills it took to get back alive.



A Way of Life, Hunting — a heritage which has flourished since the dawn of time. A video by Red Barn Video, P.O. Box 41122, Sacramento, CA 95841; (916) 361-2722. VHS, 28 minutes. \$14.95.

This video documents the enormous contribution hunters have made in the management and protection of wildlife. Filled with spectacular scenery and outstanding footage of game animals, the story details the multi-faceted world of hunting and why it is an integral part of American's lives. A great tool for gun owners to use to combat anti-hunting propaganda. With the media pouring out millions of dollars of free advertising for anti-gun groups, professionally produced videos like this one can go a long way to further our cause. Narrated by Senator H.L. Richardson, retired, founder of Gun Owners of America.

(Continued on page 43)



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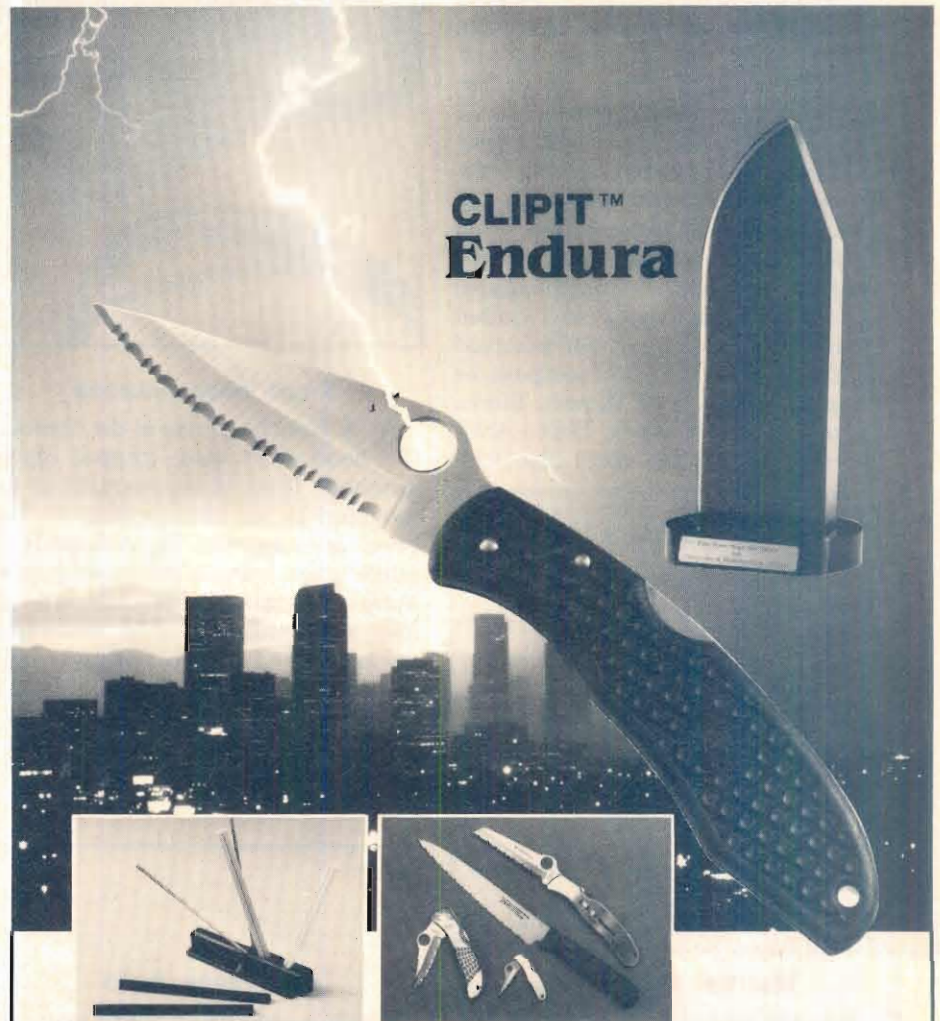
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We would also like to thank: the Custom Knife Makers, Designers, Writers and Industry Media. For their help along the way, special thanks to: Harvey McBurnette, Al Mar, Jim Oddo, G. Sakai, Louis Graves, Ceramicon Design and our excellent crew at Spyderco. We will continue our endeavor to provide high quality performance as we have done for the past 15 years.

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NEW PRODUCTS

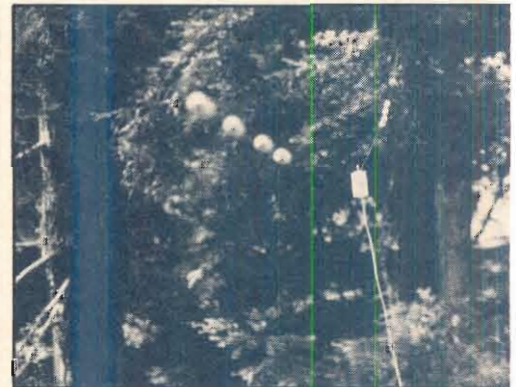
GI Tritium Lensatic Compass

Sierra Supply has a limited supply of new tritium-powered GI Lensatic compasses (NSN 6605-01-196-6971). If you've ever hassled at night with the lensatics that have phosphorescent painted markings (requires frequent use of an external light to become luminous) you'll want one of these self-luminous models. Each compass features stout and lightweight aluminum body construction, self-glowing tritium dials for easy night readings without an external light source, magnifier, sighting aperture, and degree/mil bezel. The 1:50,000 meter scale corresponds to all government topographic and geological maps. Each compass has a nylon neck lanyard and comes with a nylon belt/combat suspender pouch. Most competitors sell these tritium lensatics for \$79.95. Sierra Supply has a limited quantity for sale at only \$45 postpaid for Continental U.S., \$50 postpaid for Canada, Alaska and Hawaii. Sierra Supply, P.O. Box 1390, Dept. ASG, Durango, CO 81302; (303) 259-1822.



Short Wave Antenna

At 35 feet this is one of the shortest full band short wave trapped dipole antenna. It is short enough to be mounted in an attic or city lot but gives an electrical equivalent to a much longer wire in the lower bands. More free detailed information is available about this and other radio products from: C. Crane Company, 147 Watson Lane, Dept. ASG, Fortuna, CA 95540; (707) 725-5940.



Machine Gun News

You can't find this magazine on the newsstand. *Machine Gun News* is available by subscription only. Each month you'll find articles on exotic weaponry, rare machine guns, machine gun shooting events, and technical help with Class 3 weaponry. Profiles on fire-arm companies, info on parts and helps and suggestions on Class 3 paperwork help you overcome many of the pitfalls of full-auto ownership. 12 issues for \$24.95. Call (501) 623-4951. *Machine Gun News*, P.O. Box 761, Hot Springs, AR 71902. Canadian sub add \$10.

Saw Back Tanto

Here's a good camp knife made by Seto of Japan. This tanto has a six inch blade with sharp saw teeth on its back. The 11½" overall length has full tang construction with a molded, checkered handle for a sure grip. Comes with a leather sheath for wearing on the belt. Price is a reasonable \$24.50 plus \$2.50 shipping or two for \$49 postpaid. Contact: SI Outdoor Food & Equipment, 435 W. Alondra Blvd., Dept. ASG, Gardena, CA 90248; (213) 324-8855 or outside California (800) 533-7415.





Land Bank

This 155mm shell casing container is the perfect container for long term underground storage of firearms, ammunition, gold, silver, or other valuables. The container is made of steel and features zinc chromate military paint, rubber seal o-ring and heavy duty screw-down latch for watertight protection. The Land Bank is 43" long with an outside diameter of eight inches. Inside seven inches diameter and 38" deep. Price is \$19.95. For more information contact: The Gun Nutt, 1227 N. 2nd Street, Dept. ASG, El Cajon, CA 92021; (619) 588-5509.

Jalypso Filter

The Jalypso Smoke Particulate Filter is designed for home and travel situations. Billed as the "ultimate wet towel" the filter removes harmful particulates from the air in a smoke emergency. It fits almost any person with an elastic strap that secures the filter over your nose and mouth, leaving hands free. \$18.50 plus \$3 shipping. SI Outdoor Food & Equipment, 435 W. Alondra Blvd., Dept. ASG, Gardena, CA 90248; (213) 324-8855 or outside California (800) 533-7415.



Taurus Model 94 .22 LR Revolver

Taurus International Firearms announces the availability of a three inch barrel length on their popular Model 94 .22 LR revolver. The M94 combines the nine shot capacity of a semiautomatic pistol with the simplicity of a revolver and is ideal for use on the

target range or for an afternoon of casual plinking. A great tacklebox or backpack gun. Available in blued finish or stainless steel, three or four inch barrel length and carries the Exclusive Lifetime Repair Policy. Ask to see the Taurus M94 .22 LR revolver at your local dealer's shop today.

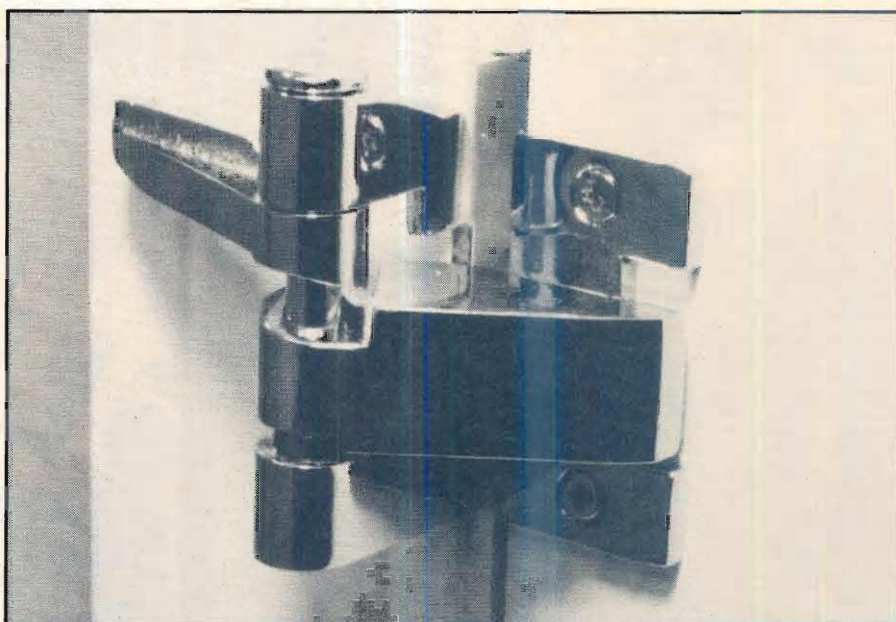


NEW PRODUCTS



Himalayan Khukuri Knives

Not to be confused with cheap imitations, the Himalayan Imports Khukuri is ranked by experts as one of the best hand-forged knives to be found anywhere. These Khukuris which are available in a wide array of styles and sizes are individually handcrafted in the Himalayas by some of Nepal's premier knifemakers using time-tested tools and techniques. Former Gurkha soldier, Ang Kami Sherpa, hand picks each knife that is shipped to the U.S. for sale. Rifleman Lhakpa Gyaljen Sherpa (NO/66964) of the 10th Princess Mary's Own Gurkha Rifles serves as Himalayan Imports technical advisor. Bill Martino, U.S. General Manager, gained a first hand knowledge of the Khukuri while living in Nepal for several years. Martino's wife, Ang Yangdu, is a Nepali who comes from a "Gurkha family" and serves as U.S./Nepal coordinator. Khukuris from Himalayan Imports are priced reasonably and are guaranteed. For more information contact Bill Martino at: Himalayan Imports, Box 327, Dept. ASG, Alpine, CA 92001; (619) 445-3801.



SNIB Lock

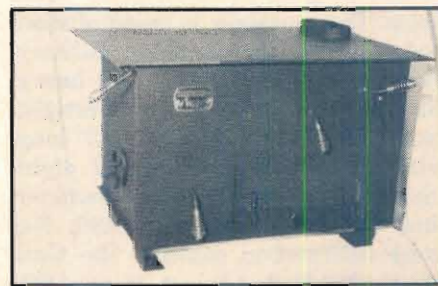
The SNIB Lock is an auxiliary locking device that is easy to operate with a simple two finger operation. It works with wood or metal, left or right handed doors. The lock mounts on the jamb permitting installation of up to

three-inch screws to bite deep into the frame. Installation requires only a small hand drill and screwdriver. Retail price is \$15.95 plus \$3 shipping. Gold Key Security, 6840 Rosemary Road, Dept. ASG, Eden Prairie, MN 55346; (612) 937-2522.



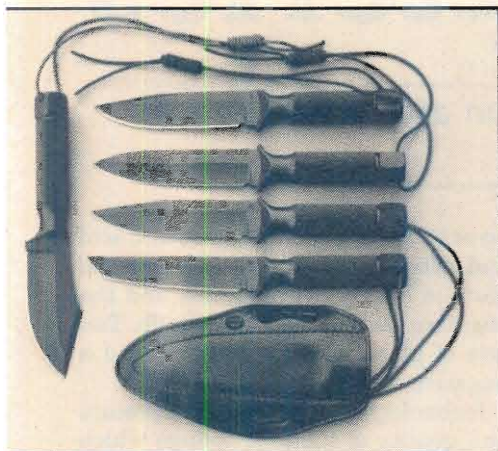
Children's Quake Kit

This kit is designed for school-age children who may be separated from parents during an earthquake. The kit contains a three day supply of survival food bars for one child, six pouches of water, one light stick, one emergency space blanket, a first aid kit and a coloring book with crayons. A great item for schools, day care centers, etc. Each kit sells for \$22.95 plus \$4 shipping. For more information contact: NITRO-PAK Survival Foods & Supplies, 13243 E. Rosecrans Ave., Dept. ASG, Santa Fe Springs, CA 90670; (213) 802-0099.



Shepherd Cook Stove

This modern cook stove burns either wood or coal, both of which are easily stockpiled and a lot safer than storing flammable liquid fuels. It features 1/4" steel plate, air-tight construction and a large firebox that is easily vented into a fireplace or window. The stove is compact and measures only 25" x 16" x 19" with a functional cooking surface of 28" x 20". The oven measures 14" x 12" x 9" and includes a lift out rack. The Shepherd Cook Stove will last a lifetime and makes a great addition to your disaster preparedness program. Price is \$469.50. Contact: Transocean Limited, P.O. Box 17395, Dept. ASG, Holladay, UT 84124; (801) 261-3210 or 262-2701.



Chris Reeve Knives

Catoctin Cutlery, a major distributor of Reeve Knives announces five new models from Chris Reeve, well known knife maker and guild member. In addition to his popular 4", 7", and 9" blade models that have met with much success, he now has added a 5½" bladed series in response to popular demand. The popular Mountaineer with a 4" blade has been expanded to a 5½" model named Mountaineer II. Also the Shadow III

now has a 5½" brother named Shadow IV. The MK V series with a 7" blade has been scaled down to a 5½" blade named the MK VI and features a "Pancake" style sheath. A 5½" tanto is available called the Tanto IV. Chris Reeve's new skinner, the Ubejane (Zulu for rhino), has a heavy 4½" blade and overall length of 9½". A high quality black leather sheath is included with all Reeve Knives. For more information contact: Catoctin Cutlery, P.O. Box 188, 17 S. Main Street, Dept. ASG, Smithsburg, MD 21783; (301) 824-7416.



Zap Pac Hand Warmer

These reusable hand warmers operate by way of a chemical reaction that takes place when a metal disc is bent inside a solution of sodium Acetate. When the disc is snapped, the solution starts to solidify and heat is given off for approximately 15 minutes. To reuse the handwarmer, simply place in a microwave oven for a minute or so and let cool. The small handwarmer size Zap Pac sells for \$7.95 plus \$2.50 shipping. A larger size, ideal for the home medical kit, can be used as a heating pad for the back. The larger size sells for \$22.95 plus \$2.95 shipping. NITRO-PAK Survival Foods & Supplies, 13243 E. Rosecrans Ave., Dept. ASG, Santa Fe Springs, CA 90670; (213) 802-0099.



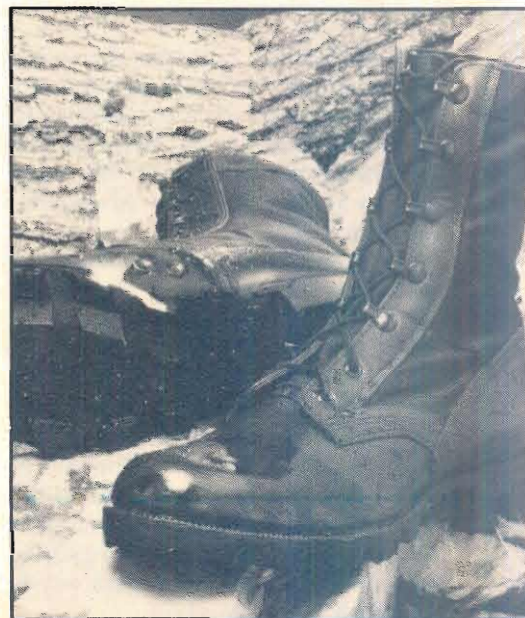
Fore Grip for AR-15, M16

This grip is designed to increase stability and give you better accuracy. It fits AR-15s and M16, CAR, H-Bar or standard models. It will work with both the A1 and A2 front stock. If you

already have an extra Colt grip you can buy the mounting bracket only for \$19.95. Mounting bracket with A2 Colt grip sells for \$32.95. Arizona Ballistics, P.O. Box 707, Dept. ASG, Laveen, AZ 85339-0707; (602) 237-4132.

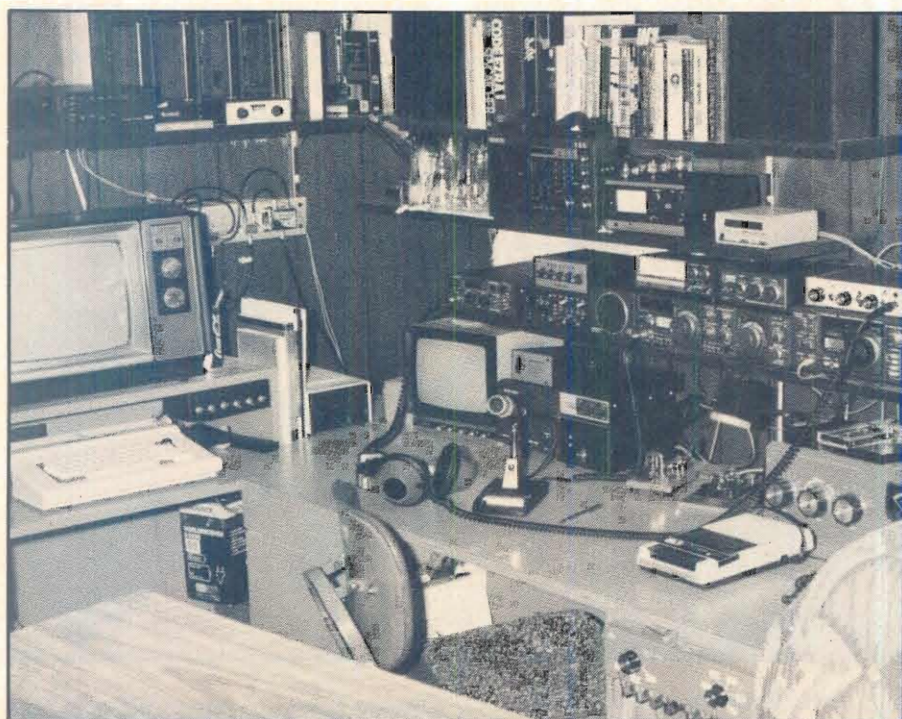
Jungle Boots

U.S. Cavalry is offering new, official, military issue jungle boots that are useful in hot, damp environments. Originally jungle boots were made with leather and canvas. Modern jungle boots are made with a leather and Cordura R nylon combination. Cordura R holds up to wear and tear longer than canvas. They're lighter in weight and the new official color is black. These boots are equipped with a speed lacing system, a boxier toe and non-clogging Panama soles. A steel shank in the sole provides extra support. Sizes range from 7 to 13 and come in regular and wide widths, no half sizes. Made in the U.S.A. Retail price is \$69.95. For more information contact: U.S. Cavalry, Dept. ASG, 2855 Centennial Avenue, Radcliff, KY 40160-9000; (502) 351-1167. ●



Deep Cycle Batteries

A discussion of the composition, operation, selection and maintenance of long-life storage batteries. . .



This amateur radio station can "listen" for many weeks powered by one 105 amp/hour deep cycle battery. With a frequency regulated inverter, the computer and monitor could be used as well. The transmitter uses about 15 amps and would have to be used sparingly in an emergency.

By David A. Rude

BATTERIES, batteries, batteries. There are probably as many different types and sizes of batteries as there are devices to put them in. The battery has been with us for 200 years, as it was discovered by Alessandro Volta in 1800.

There are basically two classes of batteries: primary and secondary. While both types produce electricity by chemical means, the primary battery consumes electrolyte, the chemical which makes electricity production possible. An example of this battery type is the dry cell, such as those used in a flashlight. When the electrolyte is depleted, the battery is discarded and a new one installed because there is no convenient way to replenish the electrolyte.

A secondary battery on the other hand is really a storage device, as it has to have an electrical charge put into it before anything can be taken out. The scope of this article will be limited to the study of secondary batteries of the lead/acid type as they pertain to alternate energy systems or for portable emergency power. These batteries are variously known as RV batteries, deep cycle, marine, and golf cart batteries. They resemble automobile batteries from the outside but are quite different on the inside. Both the auto type and the deep cycle type output 6 or 12 volts, but are not too handily interchanged, for reasons to be discussed later.

Little has changed, chemically that is, from the time the storage battery was first designed by a French physicist named Gaston Plante sometime in the mid to late 1800s. This type of battery consists of two lead plates and

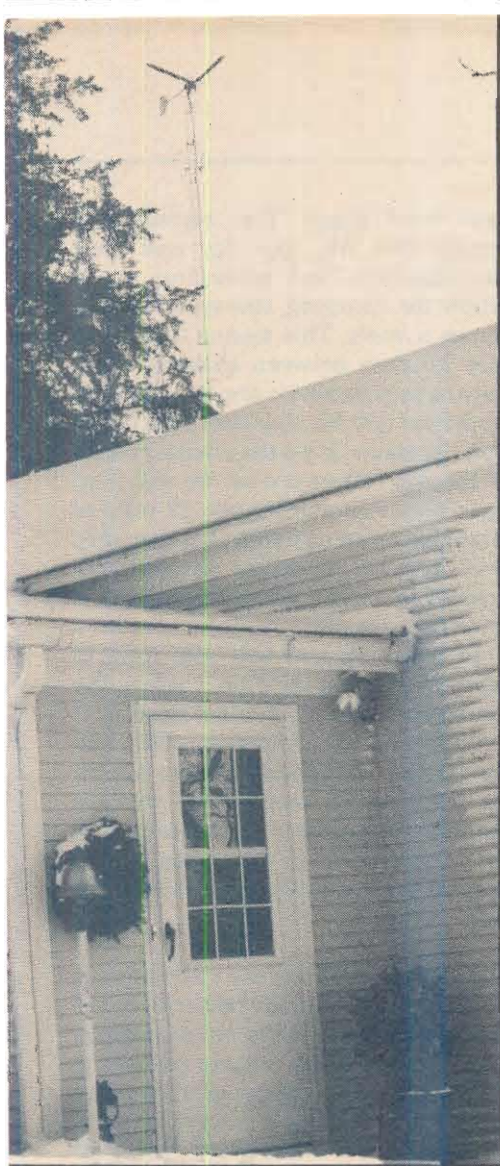
an acid, usually a diluted sulfuric acid and water mix. The positively charged plate is lead peroxide, PbO_2 , and the negative plate is lead sponge, Pb . Two sets of plates then, a positive and a negative, make one cell.

Technology has changed the process and quality of the lead sponge which is affixed to a wire grid to give the plate surface area. The most obvious area in which batteries have changed is the battery case. Space Age plastics and epoxy resins have made possible a battery case which is lighter and much more resistant to breakage than batteries of yesteryear. Not so apparent is the material and quality of the cell separators, and the new generation plate technology.

As stated earlier, the battery has to be initially charged before it can be pressed into service. When a direct current (DC) voltage is applied across the plates, the sulfuric acid is pushed out of the plates and is reunited with the water portion of the electrolyte, while the positive plate absorbs free oxygen which changes the plate into lead oxide. The reverse chemical process takes place when the battery is being discharged, e.g., powering a radio from the battery. Now, the sulfuric acid breaks up into free oxygen and sulfate. The oxygen is liberated and combines with the hydrogen to make water. The sulfate mentioned incorporates itself to both plates and forms lead sulfate.

When is the cell or battery fully charged? The device is fully charged when all of the acid is driven from the plates and back into the water portion of the electrolyte. The acid content of the electrolyte can be measured and thus the state of charge can be determined in terms of specific gravity, which is measured with a hydrometer.

"Specific gravity is a ratio of the density of a substance to the density of a substance, such as pure water or pure hydrogen, taken as a standard when both densities are obtained by weighing in air." This, according to Webster's.



Is there a wind system in your future?
This Swedish-built Elektro furnishes some of the power needs of this household.

It really is so, as the weight of the electrolyte has to change with the change in acid content. During discharge the specific gravity decreases because acid, SO_4 , goes back into the plates, making more water. The reverse is again true upon charging.

A hydrometer is a device resembling an eyedropper, but is as big as a kitchen baster. Inside the tube is a calibrated float device which floats higher or lower in the tube depending on the liquid's specific gravity. Temperature is a variable which has to be considered when trying to determine the state of charge in your battery. Hydrometers which are temperature compensated make measurements easier.

There is also a small hydrometer with five little colored balls in the tube. When all five balls rise to the top of the tube, the battery is fully charged to overcharged; when they all sink to the bottom the battery is discharged. Four balls indicates 75%.

Many batteries today have a handy

built-in hydrometer. A dark green color in the viewing glass signals a charge of 70% or better. A red indication signals less than a 50 percent charge and, depending upon amp hour capacity, will need at least a 24-hour charge at 10 amps. For specifics, you should always consult the instructions supplied with your battery.

The theoretical voltage of a modern single lead/acid cell completely charged is considered to be 2.33 volts. Individual cells are internally series connected to output 13.8 volts for both auto and marine use. Exide Company did, and maybe still does, make a very large single cell battery which had a theoretical output of 2.33 volts and had tremendous amperage capacity. It was used in wind charging systems, and backup power for commercial telephone systems. Several of these "one cell batteries" were series/parallel connected to deliver any desired volt/amp capacity required for a particular need. Although the theoretical output for an auto battery or "12 volt" deep/cycle, battery is 13.8 volts, it is always referred to as being 12 volts. A fully charged battery outputs more than 12 but less than 13.8 volts. A 6 volt auto or deep cycle battery's output then would be 6.99 volts.

Four Types — I would be remiss in my exegesis of secondary batteries if I omitted to tell you that there are four types of secondary devices which are compositionally different but chemically function in the same manner. There is a lead/antimony, a lead/calcium, a pure lead, and a nickel/cadmium battery. The nickel/cadmium battery is a hybrid battery and is not the same manner wet cell as are the others. As with most things in this imperfect world, there are advantages and liabilities associated with each battery type. Knowing what to expect from each type and knowing what you want it to do will aid you in choosing the correct battery for the task at hand.

It is now appropriate to explain why auto batteries are not going to work for very long in an alternate energy system. Auto batteries are of the lead/calcium variety and their plates are comparatively thin and will not stand up to repeated deep discharges and subsequent chargings. What happens with these repeated cycles is the sponge flakes off the plates and eventually settles to the bottom of the battery case. Auto batteries are designed to deliver high amperage for short periods of time and are seldom depleted

to 80 percent of their functional capacity. A deep cycle type on the other hand is designed to deliver less amperage over a protracted time and can be discharged to about 20 percent of its total capacity. The plates in a deep cycle battery are thicker and more numerous.

There are some deep cycle batteries which are of the lead/calcium composition. The Delco Voyager battery is of this type, but why, I am not sure, because the better built deep cycle battery is of lead/antimony composition. Perhaps Delco engineers have found a way of improving upon the best merits of this composition. Lead/Calcium batteries exhibit fair voltage regulation, average cycle life, and fair charge retention. They use very little water and are charged very efficiently. This type of battery is not known for very deep cycling however. The cost of this battery is moderate and it is used extensively for trolling motors, electricity in campers, etc.

Lead/Antimony exhibits very good cycle life, fair voltage regulation, and can be deeply discharged (cycled). The down side of this composition is that the charge retention isn't very good, the charging time is greater and water has to be replaced more often. The cost of this battery is a bit more than lead/calcium. Golf cart batteries are of this type and are highly recommended for wind systems.

Pure lead cells are very expensive, have a very good cycle life and fair voltage regulation. They are very heavy and will take only moderate depths of cycling. The charge retention is considered to be excellent and is very efficiently charged. Charge rates will be delved into later. Water replacement is low. These batteries are used for emergency standby power for telephone systems, windcharging systems, etc.

NiCads are not suitable for most types of alternate energy forms and are quite expensive. They could easily find their way into your electronic equipment which require low current requirements. Ni-Cads can be very deeply discharged and have a very long cycle life. Unfortunately the voltage regulation is very poor under prolonged use. On the positive side of the NiCad is its ability to be easily and relatively quickly recharged.

Capacity — Hopefully by now you have an idea how the lead/acid battery works and know something of its composition and output voltages. Capacity is the single most important consideration in choosing a battery.

Deep Cycle Batteries

Capacity is the length of time a battery can output a constant voltage at a given current. Current is measured in amps; an amp/hour is a current flow of one amp for one hour. Batteries are not always rated in this easy-to-understand, easy-to-compute manner. Increasingly, battery capacities are being expressed in terms of minutes of "cold cranking" that can be delivered at a predetermined current draw. For instance U.S. Battery Mfg. Co. markets a golf cart battery that will output 75 amps for 107 minutes. Upon calling the manufacturer, I learned that this particular battery is a 220 amp/hour device. Capacity WAS determined by a standard discharge rate over 20 hours for auto batteries, 6 hours for golf cart batteries and 8 hours for other deep cycle types. Thus, a 105 amp/hr deep cycle battery used to power trolling motors, for instance, can deliver 13 amps over an 8-hr. period. The current rate was computed by dividing the amp/hr capacity by 8. I believe this method of determining the capacity is more meaningful than the newer way.

A word of caution is needed here as it would be a natural assumption to assume, in the trolling motor example above that, twice as much current could be drawn from the battery if the time were cut in half. If doesn't work this way due to internal heating of the battery which causes a chemical inefficiency. It is true, however that lesser amounts of current may be drawn for longer periods of time. For instance; 6½ amps can be drawn for 16 hours.

It must be kept in mind that the higher the discharge rate, in amps, the less capacity (amp/hours) will be delivered. The Delco battery previously mentioned is a 105 Ah (amp/hr.) rated device and is capable, according to Delco specs, of delivering 5 amps for 14 hours of usable power, 15 amps for 4 hours, or 25 amps for 2.1 hours. This is pretty close to the figures derived by the above formula. This battery has a built in hydrometer.

The logical question is how many batteries do I need for my system and what specifics should I look for to put the battery bank together, if indeed a bank of batteries? Let's take a look at a couple of scenarios. First, a hypothetical retreat replete with a 12 volt everything. The electronic listening gear, shortwave receivers, TV, etc., consume a total of 150 watts; the lights, when

they're all on, take 200 watts; the stereo consumes about 10 watts, and the computer, because of the monitor and frequency regulated inverter, takes 250 watts. The ventilation system will chew up 160 watts, and finally miscellaneous appliances and gear another 200 watts. If everything is on at the same time, which could conceivably happen, your system will need to furnish 970 watts. By using simple Ohms Law to convert watts to amps we come up with about 80 amps. If all this gear runs for one hour you will have consumed 80 Ah, a pretty hefty load. To keep things manageable and to not spend a fortune on batteries, a good power management program is definitely needed. To accommodate these demands the system would need to have two 12 volt 250 Ah. batteries connected in parallel, which will provide 6 hours run time.

Keep in mind now that this heavy use is going to cause very deep cycling and the batteries will be under quite a strain, cutting down the number of times the battery can be cycled. The answer to this dilemma is to either ration the electricity or double the number of batteries. Remember too that these batteries have to be recharged by some external means.

To make things even more complicated let us put together a small 12

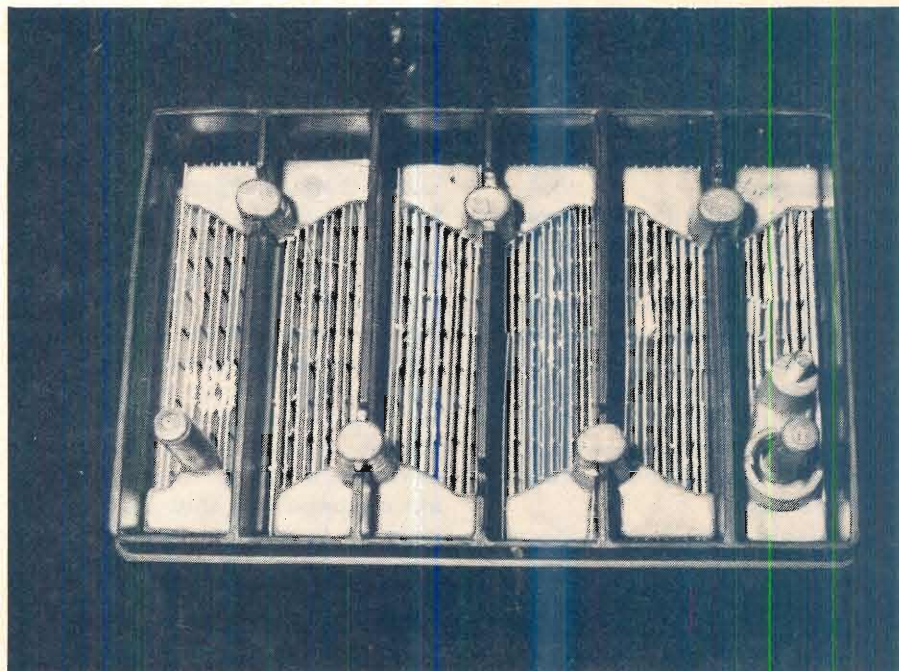
volt wind plant. Your retreat consumes 200 Ah., per day and your windmachine and prevailing winds allow for charging the system three times a week. This means that there are 2.5 days between charges which means your batteries are going to have to deliver 500 Ah. to satisfy your power requirements. If we use a battery with a 135 Ah. rating you see we will need four batteries putting out 12 volts or eight batteries at 6 volts, because they will have to be series parallel connected to satisfy the consumption of 200 Ah. per day.

In planning you will also have to allow for days of no wind. Cycling the batteries to the max is not good as it will cut down the longevity of the battery bank. By spending more money at the time of installation, you can double the number of batteries and thus cycle them in the upper 50 percent of their capacity and extend their life.

Charging — There are various ways in which to charge the batteries in the system. Windmills are not as popular as they once were, but are one of the better alternate energy or emergency systems, providing of course, if there is enough wind in your area. Batteries are used in solar cell schemes also.

No matter what the charging source,

(Continued on page 60)



Bird's-eye view of a battery's construction. The lead grids are separated by the paper-like material and are interconnected by the lead connectors straddling the black cell dividers. Normally, the electrolyte level engulfs this assembly.

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Arizona Ballistics:

Mach V Sport Launcher

Staff Evaluation

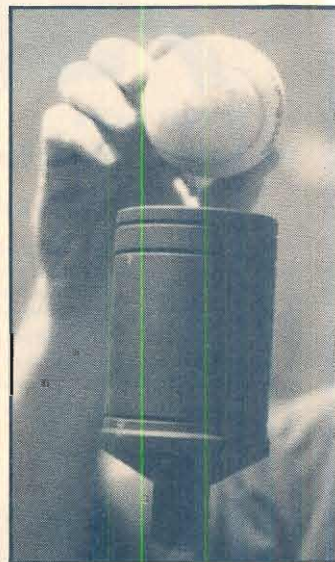
Launch smoke, tear gas, grappling hooks. . .



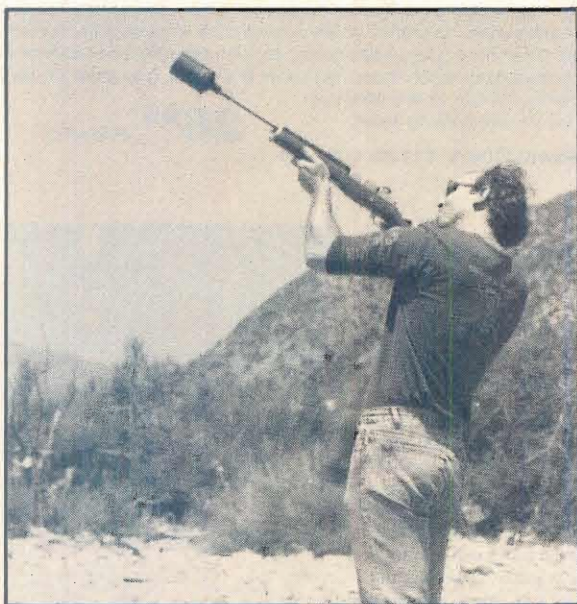
The launcher attaches to the rifle with two Allen screws.



Next a plastic disk is placed inside the launcher.



Then a tennis ball, smoke grenade, etc., is placed in the launcher.



Raise the barrel to about 45 degrees for best trajectory.

Blank ammunition powers the launcher.



With the Mach V Sport Launcher you can greatly increase the versatility of your rifle. It will launch tear gas canisters, smoke grenades, grappling hooks, and even tennis balls and non-carbonated soft drink cans.

The Mach V attaches on to the muzzle of a number of rifles including: AK-47, AR-15, M16, HK and Mini-14. The launcher works by means of gas pressure exerted out the barrel from standard blank ammunition. It operates even better with grenade launching rounds available from Arizona Ballistics.

We tested the launcher with tennis balls. The launcher is attached to the muzzle with nylon tipped screws using an Allen wrench (won't mar the rifle). Next, you place a plastic disk into the launcher (acts like a wad) and then the tennis ball. Raise the rifle to about 45 degrees from the horizon.

With blank rounds of ammo loaded into the Mini-14 we were using, shooters were able to send tennis balls flying over 200 yards.

For more information on the Mach V Sport Launcher call or write: Arizona Ballistics, P.O. Box 707, Dept. ASG, Laveen, AZ 85339-0707; (602) 237-4132. ●

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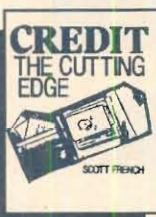
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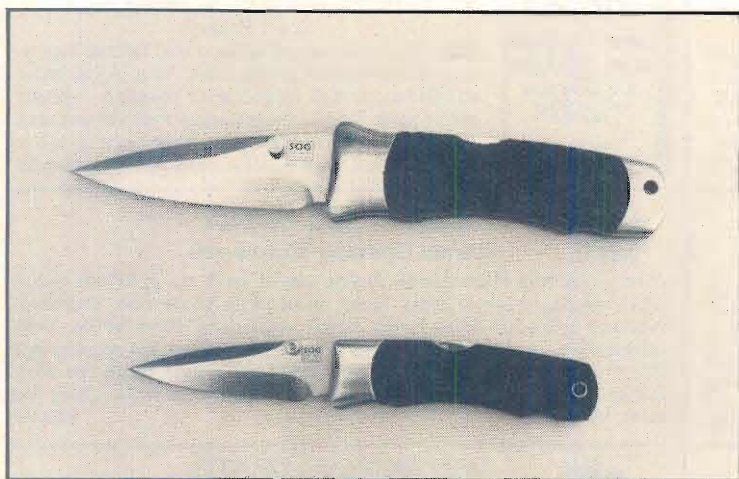
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Staff Report

Sleek drop-point bowie-style lockback folders...



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Dual mounting black nylon belt sheath holds the Sogwinder II securely and comfortably.



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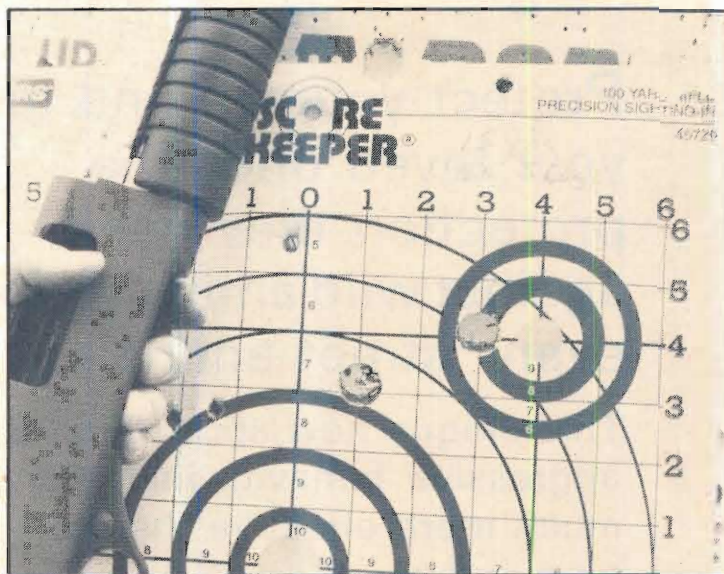
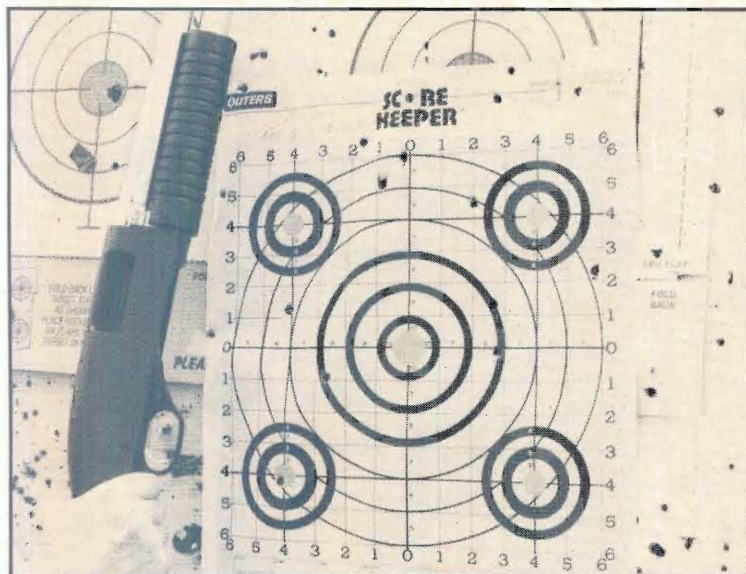
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AMERICAN SURVIVAL GUIDE/NOVEMBER 1990 23

Winchester:

Stainless Marine

A handsome stainless version of the Winchester Defender 12 gauge shotgun made with high tech materials and featuring a special anti-corrosion treatment for marine environments...



Results of firing 00 buckshot, left, and slugs, with shoulder aimed fire from 15 yards.

By Jim Benson

WINCHESTER's Stainless Marine Defender pump action security shotgun is designed with the marine or jungle environment in mind.

The Stainless Marine features a handsome multi-plated polished chrome finish ordnance steel barrel, phosphate-coated high strength aircraft aluminum receiver, extra durable corrosion and moisture resistant military specification synthetic stock and fore end and specially treated (for extra wear and corrosion resistance) internal parts.

The receiver and 41 internal parts have the new Sandstrom 9A phosphate coating widely used on military guns in the Vietnam War. This coating not only resists the effects of moisture but the parts it is used on also benefit from its lubricating properties which are suspended in an epoxy resin system containing molybdenum disulfide. This dry film lubricant extends the life of those parts.

The Stainless Marine has a capacity

of six 3-inch or seven 2¾-inch 12 gauge shells and will fire any commercial load of 12 gauge ammunition including magnum loads of buckshot and slugs.

The 18-inch ordnance stainless steel barrel is triple plated for the maximum corrosion resistance. First a plating of copper is applied to the barrel, magazine tube and action bars because copper, with its corrosion resistance, bonds very well to steel and to the next coating of nickel. The nickel provides the majority of corrosion protection.

Finally a bright chrome plating is applied to these parts which gives the Stainless Marine its striking appearance. The ribbed fore end and traction grip stock are of the very durable mil spec synthetic material and are said to be totally impervious to deterioration in any environment. The molded stock has a ¾-inch thick rubber butt pad which is a great help when firing magnum loads of buckshot and slugs. There is a cross bolt safety positioned forward of the trigger guard. Chrome sling swivel studs on the magazine cap

Model 1300 Stainless Marine: Tech Specs

Gauge	12
Capacity	7 (2¾-inch shells) or 6 (3-inch shells)
Chamber	3-inch Magnum
Choke	cylinder
Barrel length	18 inches
Overall length	38½ inches (28½ inches with pistol grip)
Length of pull	14 inches
Drop at comb	1 ¾ inches
Drop at heel	2¾ inches
Weight empty	7 lbs. (6 lbs. pistol grip)
Price, suggested retail	\$423
Manufacturer	U.S. Repeating Arms Company Inc. 275 Winchester Ave. New Haven, CT 06511

and butt stock are standard.

The efficient chrome molybdenum rotary bolt with four lugs turns and locks into the receiver for secure lock-up and faster follow-up shots. This system is similar to the bolt system on the M16 rifle.

Despite all this hardware, the Stainless Marine is surprisingly lightweight, about 7 pounds empty, or 6 pounds

(Continued on page 68)

The 38⁵/₈-inch overall length of the full-stock Stainless Marine gives the shooter a compact shotgun which still offers plenty of firepower.



The receiver and internal working parts of the Winchester 1300 Stainless Marine are phosphate coated with a special corrosion inhibitor proven in Southeast Asia.



Firing buckshot loads with the pistol grip was hard on the hands.

Deep Freeze

'Shortcomings in winter wilderness survival skills must be minimized'...



Winter mountain climbing requires careful planning as well as a bevy of technical skills and self-confidence (Todd Goss).

By Bob Newman

BILL White, John Lamanna and I geared-up for the hike down the mountain trail late in the afternoon, deep in the Maine forest. It was early January in the Pine Tree State's Blue Mountains, east of the Redington Pond Range, at an elevation of about 2,400 feet. We were heading for a remote, well-hidden cabin overlooking the Redington Valley. The temperature was -30 degrees F.

The trek down the slope took us about an hour, after departing from our base camp. It was dusk when we arrived, so we quickly set to gathering the necessary materials for building a fire in the ancient woodstove. Before long, John had a roaring fire going —

John could build a fire in a flooded wind tunnel — and soon the bitter chill had worn off.

As evening settled on the three survival instructors, the low pressure system above us moved off to the east, and was replaced by a high pressure cold front. The great heat sink of space sucked what little warmth was left in the atmosphere into its void, and the really cold stuff took hold. By dawn, it would be -85 degrees F, with windchill figured in.

Now came the fun part — the trek back up the mountain trail to our base camp. We filled our water bottles at the spring behind the cabin, and headed out. The return trip took two hours. Our polypropylene underwear, wool trousers and Gore-Tex parkas kept us warm and dry, despite the hideous



Sixteen-year-old Trevor Roiger dispatched this cotton-tail with one shot from his .22 caliber rifle. Marksmanship is an important survival skill (Bob Newman).

cold. The lightweight magnesium snowshoes on our feet prevented us from having to "post hole" up the mountain.

That episode in the winter of 1988 was survivable because we had the minimum survival gear necessary for success. Just as important as the equipment is the knowledge required to use it, and make do. This article will cover some of the knowledge and equipment one would need in order to meet the minimum requirements for both categories.

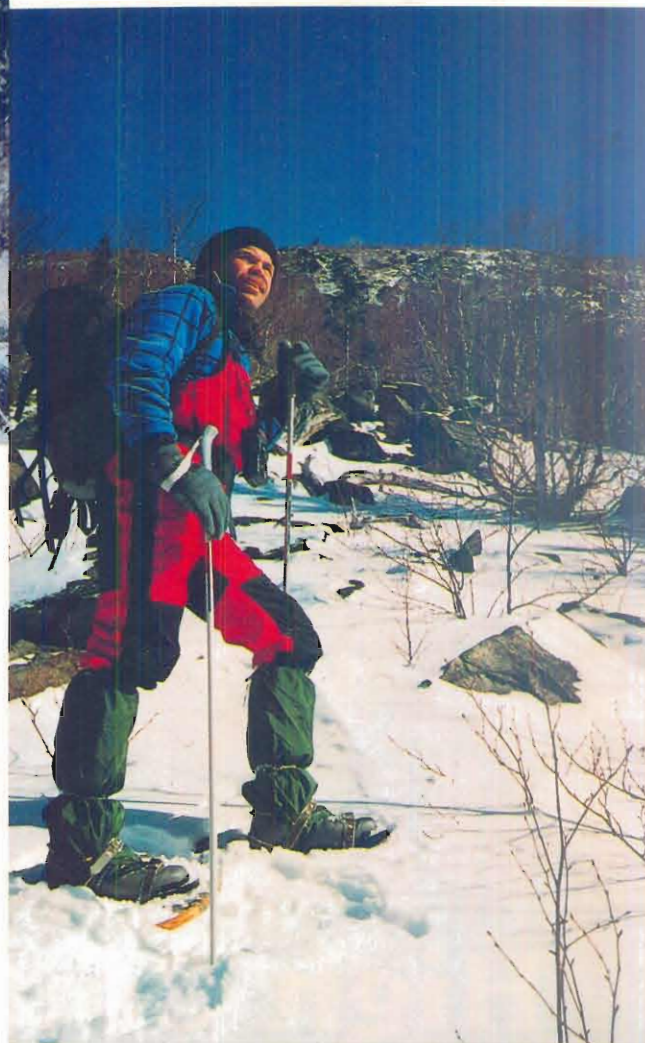
A survivor's ability to quickly create a usable fire under extreme conditions, such as high winds and very low temperatures, will play a big role in the outcome of his debacle. When it comes to building a fire in a survival situation, it's anything goes. Improvisation and craftiness will often play a



Moose usually migrate to higher elevations for the winter and return to lower elevations in the spring (Bob Newman).



In the mountains, elevation can make a big difference in how one goes about the business of survival (Susan Newman).



Snowshoes are frequently the transportation mode of choice in rugged cold weather terrain (Todd Goss).

prominent part in the play called "Make Do or Perish."

Most of Maine's vast woodlands are transitional in nature, with a few regions falling into the boreal category. This means that useful trees such as paper and yellow birch, Balsam fir, white, black and red spruce, eastern white pine and mountain ash are common.

Keep in mind that one starts a fire with, in addition to a flame or spark of some sort, tinder. Now, this tinder might be a few thin, dry strips of yellow birch bark, or perhaps some paper birch bark. If none is available, some wool fibers pulled off of your trousers or shirt might do. What about that 35mm film canister filled with cotton balls that you stuffed into your pack? The inner fibers of cattail heads, that common wetland perennial, also make excellent tinder, as do shavings from tinder polypore mushrooms.

Have plenty of tinder standing by for use, a variety if possible.

Next up is kindling. Gather some of

the lower-most, dead branches of conifers, such as fir, spruce and pine. Even if wet, these branches can be stripped of their bark and used. Thin, trimmed sticks of softwood ignite faster than hardwood, but do not build up as good a bed of coals as hardwoods do. Once again, a variety should be on hand for different stages of the fire.

The final ingredient is fuel itself, the larger, heavier sticks and logs. If you have taken your time and put plenty of kindling to the fire first, even damp logs will burn, provided you have remembered to keep the fire well ventilated and up off the moist ground. Did you bother to prepare the fire site before igniting the tinder?

Also, keep in mind what you intend to use the fire for. Cooking? If so, will you be cooking your chow in a vessel, in the coals or on a stick over the coals and flames? Your fire should be designed to accommodate your cooking plan. If you are using the fire primarily as a heat source, a mistake could cost you, especially in the dead

of winter when time and efficiency are paramount.

Only your imagination will restrict your shelter building ideas. I wouldn't be counting on that tent, either, if I were you. You may find yourself in a thicket that simply will not allow its use. That means you are going to have to build yourself a safe, warm shelter from what is at hand and in your pack and pockets. Get to it!

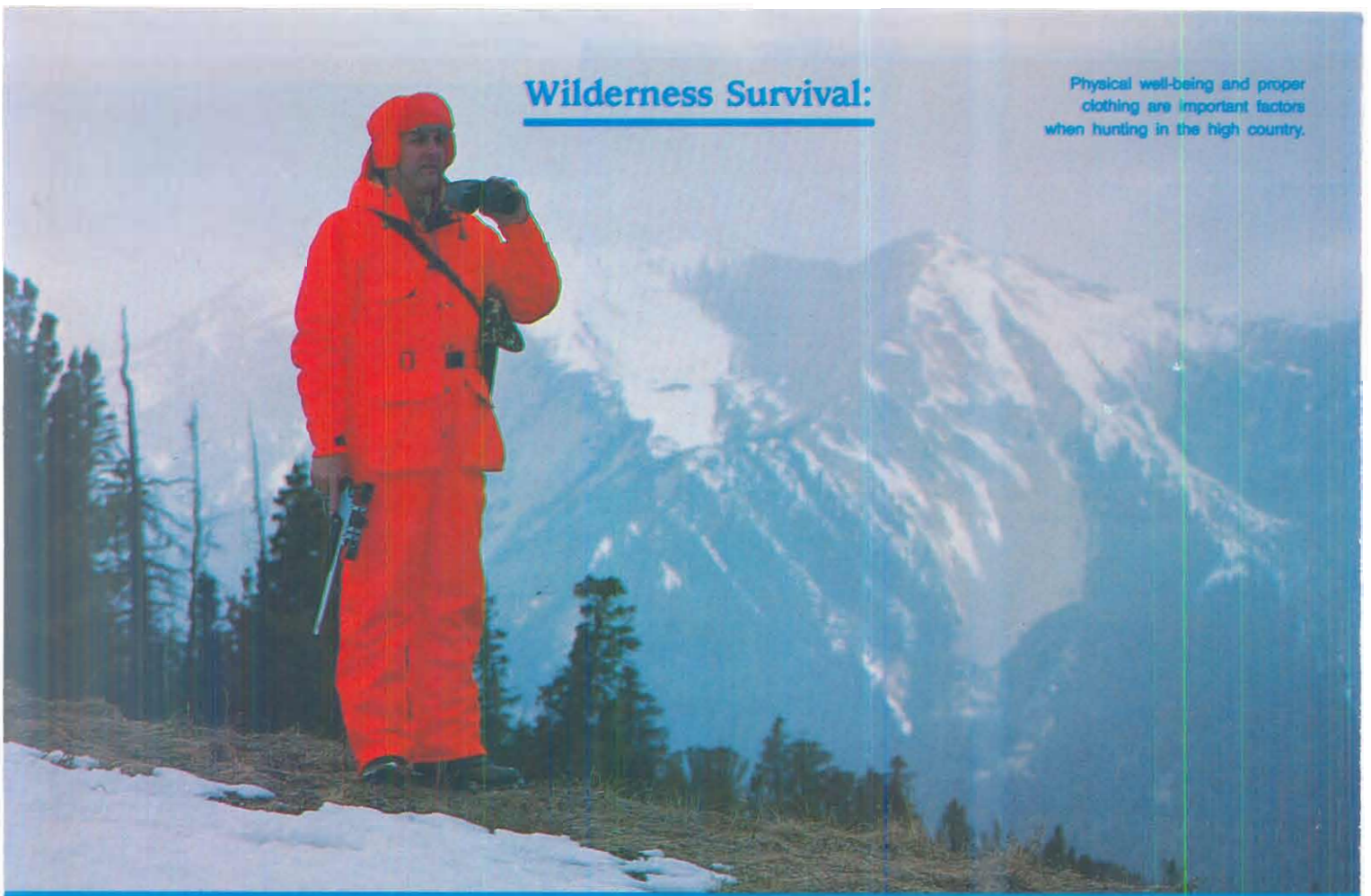
Think hard about the shelter site. Is it the best available? What could go wrong here? Take a closer look. Is there a shelter already available, such as a rock overhang or hollow log? It may need a bit of touching up, but it may beat the heck out of spending an hour constructing a thatched lean-to in sub-zero weather.

Consider wind direction and potential snowfall. Consider avalanche and unexpected, unwanted guests. Consider that huge, standing, dead pine just up the slope a few yards. If it decides to come down in this wind, it may land

(Continued on page 50)

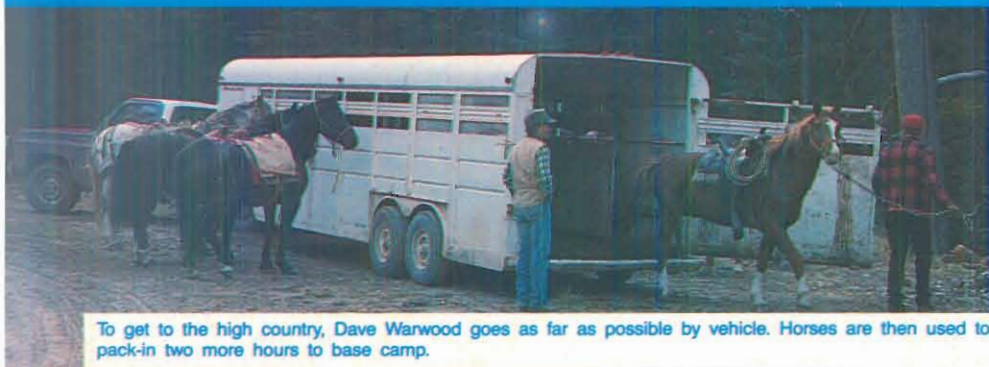
Wilderness Survival:

Physical well-being and proper clothing are important factors when hunting in the high country.



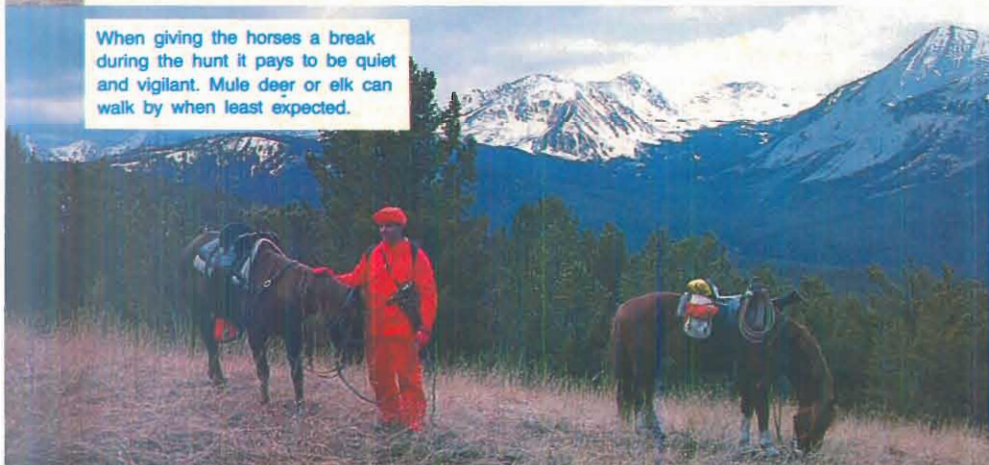
High Country Hunting

Survival preparations will help you bag a trophy and live to bring it home...



To get to the high country, Dave Warwood goes as far as possible by vehicle. Horses are then used to pack-in two more hours to base camp.

When giving the horses a break during the hunt it pays to be quiet and vigilant. Mule deer or elk can walk by when least expected.



This is an example of the layering method, good for fall and winter travel in rugged terrain.

First-time elk hunters will be amazed at the amount of preparation necessary to pull off a successful hunt. High country hunting requires special planning, physical fitness training, selection of proper equipment, and a basic knowledge of game habits and habitat.

The success rate for trophy bulls depends on hunter effort, the weather, a good guide, and above all, being in the right place at the right time. Hard work and luck is the key.

High country hunting, simply by the title, refers to an area where the air

ago, a time looked upon by many of today's outdoorsmen as an era of abundant game, there were in reality less than 100,000 elk in the United States. Some of the reasons for such an alarming trend were the results of over-hunting, lack of regulations, and the destruction of elk habitat. Loss of habitat and domestic grazing is unfortunately still an issue today. Even with these problems, the North American herd is growing and estimated at over 750,000 animals. Sensible game management programs by progressive state officials, conservation groups, elk preservation organizations, hunters and outfitters have contributed the resources needed to make this change

Study and learn his anatomy and habits so when and if the opportunity arises, you will know instinctively where to put that crosshair for a rapid and humane harvest.

There are four concerns that should be addressed by anyone traveling with firearms. These relate to loss, damage, legality and lack-of-a-hassle. Airlines require firearms to be obviously unloaded and transported in a rigid and locked case. Therefore, purchase the best you can afford. Depending on the handler and luck, a gun case can emerge with only scratches or look like it was thrown down the runway by an anti-hunter.

I personally use the Outers Silverline cases which I found durable and reasonably priced. To avoid loss, I put a name tag on the handle with my home address, plus the address and phone number of the outfitter I will be hunting with. I also stick an address label on the case and engrave my name into the aluminum near the handle. For extra precaution, run a band of nylon tape around the case over the latches.

Picking an airline is important since some seem to be anti-hunting and treat you and your luggage with a negative "we don't need your business" attitude. Other precautions include insuring the firearm with the airline, removing parts so if stolen, it lessens the value for the thief. Also, keep photos, serial numbers and receipts to prove ownership.



To keep snow from getting in your boots, try a pair of gaiters. These are Cabela's Fleece Gaiters which are silent.

is thin and the terrain rugged. Hunting can be physically demanding. Don't let the lazy "road hunter" type influence your preparations. Many of these people illegally shoot off a vehicle and then brag how easy it is to hunt elk. A true hunter might spend seven to 10 days in the mountains in pursuit of a hard earned trophy.

When on my last elk hunt in Montana with outfitter Dave Warwood of Bridger Outfitters, I was shown that a lot of elk hunting information presents good reading, but little in the way of practical information for those attempting such a hunt, especially for those trying for the first time, either guided or on-your-own.

The following guide is the result of my experiences and information learned from picking the brains of various outfitters, especially Dave Warwood.

Know your animal — only 90 years

in numbers. Anti-hunting groups have done little to help increase herd size and quality. These so-called "dogooders" are misguided and ignorant concerning true wildlife management and their emotional tactics do little good for the animals themselves. Enough!

Of the various subspecies of elk, of which some are extinct, the remaining main species are the Rocky Mountain, Roosevelt and Manitoba. Generally speaking, the body weight and size vary within populations and according to food supplies. To put this into numbers, a bull could stand five feet high at the shoulders and weigh as much as 1,000 pounds with antlers spreading over five feet. With a possible body length of 10 feet, this is big but not an easy target when considering ranges, hunter exertion and tachycardia due to simply seeing this magnificent animal.

Hunter preparations — Most of us live at under 5,000 foot elevations. Get above that elevation when used to sea level and there is the possibility of altitude sickness. This is a disorder that occurs when the amount of oxygen in the blood becomes so low that there is not enough to meet the body's needs. The resulting symptoms could include fatigue, lightheadedness, shortness of breath, headache and nausea. The reduced atmospheric pressure which determines the amount of oxygen that enters the blood by way of the lungs is the indirect cause of the above symptoms. If the hunter is overweight, out of shape and/or has a medical problem such as angina, a tragedy is just waiting to happen.

Even when in shape but not yet acclimated to the high altitude, slight exertion and excitement such as seeing an elk on the first few days could be all that is needed to push someone over the edge. There is a fine line between simple exhaustion or experiencing a

High Country Hunting

heart attack. Also remember that with advancing age our coronary arteries begin to narrow which means that even less oxygen-carrying blood is transported to where it is needed. Guide Robert Hogue from Bridger Outfitters told me that on this topic, a good guide will be careful not to push someone beyond his limit even when the hunter insists he is fine.

The next consideration, once the need for advanced preparations are realized,

hunt. Physical well-being means that the hunter must get himself in shape months before attempting any high altitude or physically demanding adventure.

You either walk or ride, and riding means a horse. This can be fun or traumatizing depending on your preparation, experience, or physical well-being. This was my pitfall! Although in pretty good shape and not having any medical disorders, after two days on a

horseback is the only practical transportation in rough country. Yet, if a hunter is not up to a lot of walking and riding, Dave wisely will put him or her on stand while others will work through an area. This method can be productive for both.

Clothing — Sounds simple but someone on their first hunt can pack too much of the right or wrong kinds of apparel. Don't forget that all of this has to be packed in to the base camp on horses. Proper clothing is also the most important factor that determines the hunter's comfort and protection from the elements. When purchasing clothing, factors to consider are: warmth, keeping dry, weight, versatility, comfort and fabric "noise."

On one hunt I used Cabela's Gore-Tex Thinsulate Coveralls. When stand hunting on a frigid or wet day, you can't find anything better. When moving through rough country, they were noisy when walking or rubbed. A one piece outfit is very awkward when nature calls since dropping the top half on wet snow-covered ground to expose the bottom is not the best approach when living out of a tent. On another hunt I wore Cabela's Worsterlon Gore-Tex/Thinsulate two piece outfit which I found more comfortable when on horseback, almost as warm as the one piece yet dry and fairly quiet.

Wool is the quietest but lacks some of the advantages of the high tech fabrics. No matter what you pick, the important thing to do is to dress in layers beginning with synthetic long underwear that fit but are not constricting. Next, a sweat outfit or one made of Polar Fleece makes a good center layer. On all of this, pick a good outer outfit as mentioned above. A hooded outer jacket is also useful in preventing snow from falling down your back when riding under snow laden branches. Concerning gloves, mittens are warmer but make handling a firearm difficult. I recommend bringing two pair of gloves.

Footwear is very critical to staying warm. I usually wear a pair of Thinsulate Leather Boots and pack in Sorel Stags with an extra liner which is rotated every night. After a day in these boots, the liner usually is damp due to normal perspiration. If there



A rangefinder is especially valuable to the handgunner since distance and bullet drop is more critical to him than the rifleman.

is to get started with an exercise program six to 12 months before undertaking such a trip. This should begin with a visit to your family doctor for a check-up that will hopefully catch a potential risk. After getting a physical, start your exercise program and follow it faithfully. Dave Warwood who has guided many hunters of various backgrounds over the years surprised me when he stated that his best physically prepared hunter was a middle aged man who lived in New York City and worked on the 18th floor. The key is that this man never took an elevator and climbed steps at all opportunities. When one thinks about this approach, it makes sense since climbing mountains requires the same muscles.

Besides a lot of fast walking, Dave wishes that all hunters would exercise on steps. I am adding this routine to my exercise program before my next

horse, I tried to walk and lead him whenever possible due to excruciating lower back pain. This made hunting painful yet still enjoyable. It would have been a lot more enjoyable if I only had the cold and mild exhaustion to contend with.

With three days of hunting left, a new hunter who joined us was a chiropractor from Oregon. Dr. Jeff Utter manipulated my back which relieved much of the pain and allowed me to take a lot less Advil. Although I never injured my back, being tense on a horse for long periods of time must have been too much for muscles and joints not accustomed to the rocking motion of a horse.

Dave recommends frequent riding two to three weeks before actual departure. I rode a little but obviously not enough. With the huge amounts of territory needing to be covered, being on



Rangefinders for various distances.

is no snow and the ground is dry, I prefer the leather boots since for me, they are easier to walk in. When weight and space is a problem, the Sorel Stag is worn, leathers left behind and the extra insert always included.

As far as firearm preparation goes, once you have selected a flat shooting handgun or rifle with the power and bullet sufficient for this size of animal, all this is left to do is to *practice*. This sounds logical, yet every outfitter I have ever hunted with, when asked for their main complaint concerning hunter preparation, has stated that many can't shoot under pressure offhand. Ivan Samson, The Cherokee Outfitter out of Fort Laramie, Wyoming, told me that he had three hunters who could shoot one inch groups from a bench at 100 yards and then miss pronghorn and mule deer broadside at less than that. For elk hunters it is even worse since the game is usually farther away. Therefore, you must practice weekly offhand, leaning against a tree, prone, or sitting at targets from fifty to at least five hundred yards.

Concerning the rush of adrenalin when game is spotted, you can probably never eliminate that factor but it can be controlled with practice. Keen competition in the shooting sports, preferably with the firearm used to hunt with, is the best way I know to control "buck fever" common to deer hunters.

Because big game ammo is expensive, when planning to hunt with a Thompson/Center handgun, I do a lot of practice with a .22 caliber barrel. When planning to use a rifle, a Ruger 77/22 which feels a little like a larger caliber firearm is used. The key is to shoot and then shoot some more! Dave told me that at the last R.M.E.F. convention, one of the speakers stated that

there is an 85 percent miss rate on elk. To get that statistic lowered, hunters will have to shoot more, exercise more, learn to control hunter stress, and not take shots that are beyond what is considered reasonable.

The worst thing a hunter can do is to go on a hunt thinking he knows it all and therefore does not listen to the guide's advice. Guides from the mentioned outfitters stated that this is sometimes a problem. Basically, do what you are told, be quiet at all times since sounds travels far in the mountains and have a good pair of binoculars to assist your guide in locating game.

A guided hunt should be a joint adventure. Since optics will be used extensively, to avoid eye-strain, a quality pair is a must. I use Steiner 10 x 50s since they are rugged and of sufficient power to scan for game at long distances. A good guide will not only try to locate game but will teach a client what to look for if an interest to learn and participate is evident. Concerning glassing, Dave told me when observing an area to look for tracks as well as game in the shadows of thick woods. He also pointed out the differences between various animal prints and when trailing an elk, how to discern if it's a male or female. On urinating, a female will stop and squat in one area while the male will dribble along the way. It becomes simple when animal behavior is compared to that of humans. Females, due to hip displacement, often have their back feet overlapping outside of the front footprints.

Dave also believes that you can pretty well figure out a male from a female from the droppings. On the times we followed up on this he was right. This may sound like luck only, but a guide's

gut feeling is usually a good bet. Dave mentioned that he has had such feelings about watching a certain meadow when nothing appeared to be in the area. Instead of the hunter listening to the guide and posting there, he would insist on going beyond only to find on the return trip hours later that game had crossed where they had been.

The concept of distance can mean a lot of different things to different people. To someone who is used to shooting within 100 yards, as is common when hunting deer in the East, it can mean disaster out West. The most critical problem I encountered when hunting in the Western States concerned correctly judging distance. To assure a clean kill, the hunter has to first sight his rifle for a specific distance and then know how much the bullet will fall at extended ranges. The only problem left is to know the ranges. If you are not a good judge of distance, I would recommend a Ranging Spectrum 500 or 1000 rangefinder. They accurately measure distances from 20 to 500 yards and 50 to 1000 yards depending on the model. The only drawback to using them is the time factor. Yet, with at least 70 percent of the shots I have taken at game within the last 10 years, I had ample time to measure. For the other 30 percent I was lucky to get the safety off before the game vanished. They work if you have the time to use them and are smart enough not to use them when you do not have those extra moments.

In summary, the experiences of hunting the high country is equal to no other activity or vacation I have ever experienced. It is rugged yet one of the most beautiful places on earth and gives the hunter memories to last a lifetime. With wise preparations, the memories will be enjoyable ones. ●

Model 85 Revolver

Taurus:

A compact, accurate 5-shot .38 Special...

Staff Report



Fast firing at seven yards produced groups of less than seven inches.

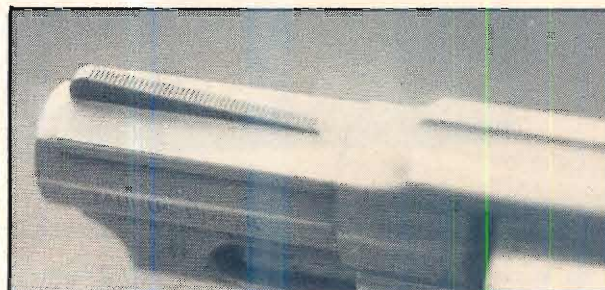
A reliable little revolver for home protection can be a comfort, and the Taurus Model 85 proved to be one of our favorites in recent test shoots. Female shooters especially liked it, for this small revolver in .38 Special caliber, is highly controllable and accurate, even with its snubby 2-inch barrel.

The model 85 is a double or single action revolver with a five-shot swing-out cylinder, two or three-inch barrel with heavy solid rib and ejector shroud, and grips made of beautiful Brazilian hardwood. The front sight is a serrated ramp and the rear sight is a small notch. The revolver will only fire after the trigger is pulled back and the transfer bar raises up to firing position behind the firing pin.

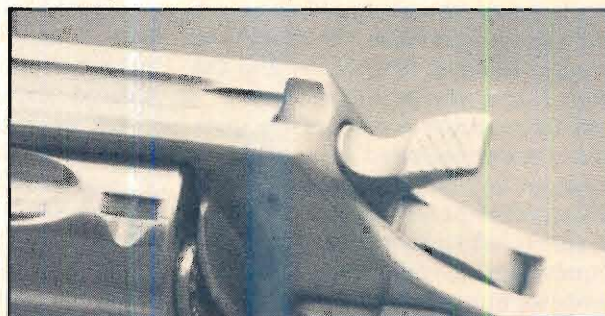
tion behind the firing pin.

We tested a stainless steel version, but the Model 85 comes in blue or satin nickel finish as well. Ammunition used in test firing included inexpensive 158 grain police reloads, PMC 38B 158 grain semi wad cutters, and PMC 38G military ball 132 grain FMJ. At 25 yards bench rest firing on sand bags, we had our best groups (seven inches) using the PMC military ball. At a more realistic distance of seven yards, three-inch groups were easily attained shooting offhand. Fast shooting offhand at seven yards yielded groups of seven to eight inches.

We didn't test any +P loads — Taurus officially doesn't recommend the practice. Unofficially, although the hot-



The front sight is a serrated ramp.



Rear sight is a notch.



The swing-out cylinder holds five rounds.

ter loads cause faster wear and tear, the gun can handle +Ps. One idea is to use regular .38 Special ammo for normal practice firing and then +P hollow points for home defense. Make sure though, that you can keep your +P groups just as tight. It's always important to test different ammo to find out what gives you personally the best results.

The Model 85 is a joy to shoot, fits well in the hand, and with a retail price of only \$216.90 for blue and \$274.60 for stainless, is an affordable weapon for home and field protection. For more information, contact your local dealer or: Taurus USA, Dept. ASG, 16175 N.W. 49th Ave., Miami FL 33014; (305) 624-1115. ●



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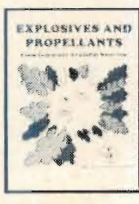


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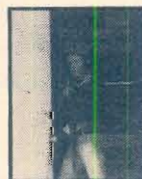
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FULL-AUTO

SUPPRESSORS

Thompson- #027.....\$7.00
AR-15 - #061.....\$7.00
MAC 10 - #010.....\$7.00
KG-99 - #KG-99.....\$8.00
Ruger 10/22 - #10/22.....\$8.00
H&K 91/93 - #HK 91/93.....\$8.00
Selective Fire UZI - #FP-4.....\$10.00
UZI - #036.....\$7.00
M1 TO M2 - #130.....\$7.00
AK-22 - #022.....\$7.00
HK94 - #HK94.....\$8.00
Ruger Mini-14 - #MINI-14.....\$8.00
Selective Fire 10/22 - #229.....\$10.00
STEN - #STEN.....\$9.95

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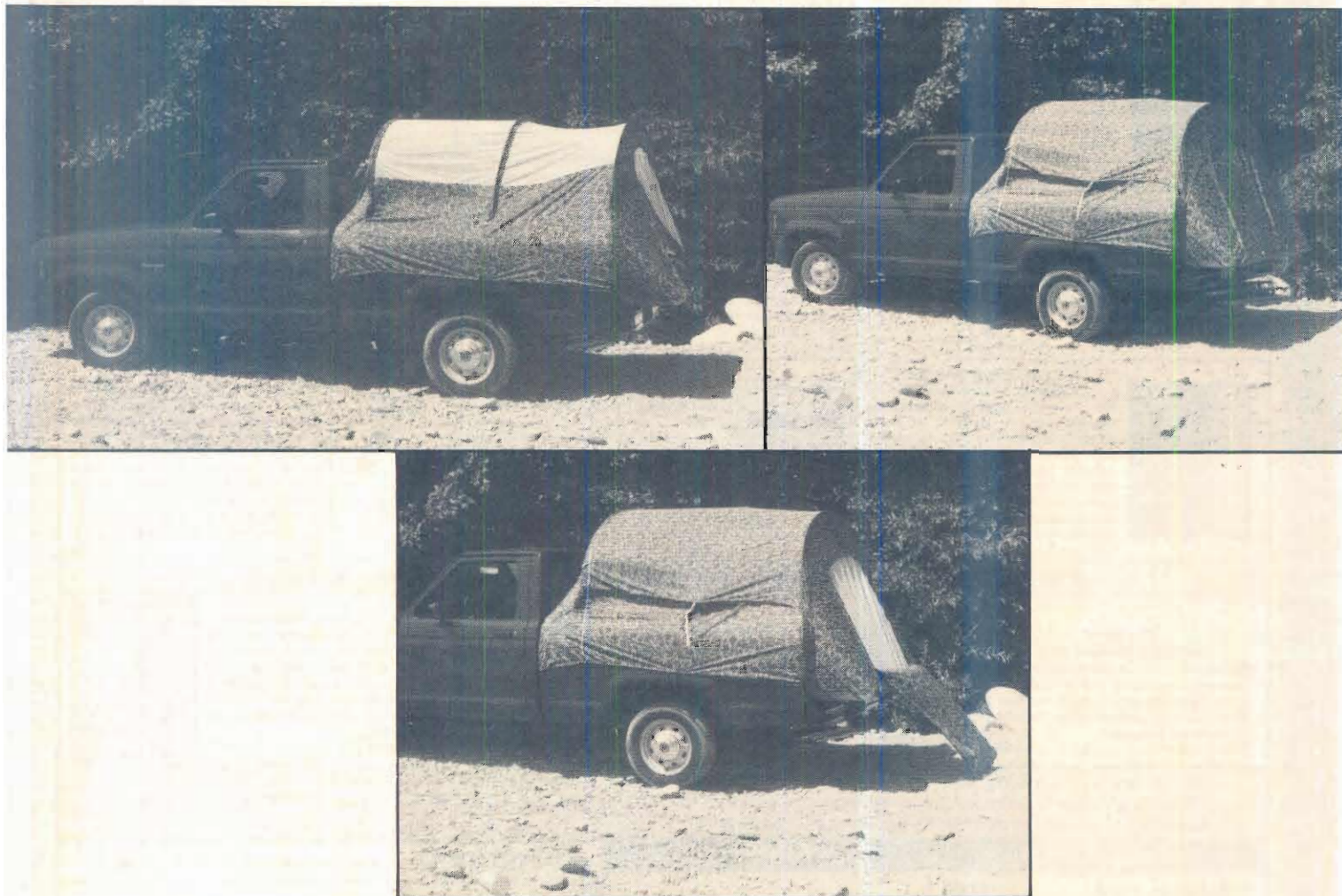
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CREDIT CARD #			
EXP	SIGNATURE		
WE ACCEPT VISA, MASTERCARD, CHECKS, MONEY ORDERS SORRY NO COD'S (602) 634-6280		QTY	STOCK NO
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		TOTAL	

Banyan Industries:

Soft Shell

For fair weather camping. . .

Truck Tent



Staff Evaluation

Anyone owning a truck, either full size or mini, who hasn't gotten around to buying a hard shell for the bed, can purchase a new tent designed to fit the truck bed and tail gate. The Soft Shell Truck Tent comes in four sizes and is made of nylon with water-repellant rainfly and mosquito mesh screen. Three break-down fiberglass poles are bowed out covered-wagon style

to hold up the tent. The tent comes in blue and grey color or camouflage.

We had a few problems setting up the tent, but once it was finally erected it seemed to work quite well. Straps and tie-downs anchor the tent to the fender wells and tail-gate. It would be questionable whether the tent could hold up to a severe wind buffeting, but for fair summer weather or an afternoon shower, it would work fine. The

main problem we had setting up the tent was locating the openings for the pole sleeves. They aren't found at the bottom edge, but rather one third of the way up the wall of the tent.

Prices range from \$129.95 to \$169.95 with \$10 extra for camouflage. For more info on these tents contact: Banyan Industries, 15928 Vanowen Street, Suite 110, Dept. ASG, Van Nuys, CA 91406; (818) 782-3618. ●

Professional Locksmithing Tools

LOCKAID

Specifically designed to pick tumbler locks. Designed over thirty years ago to aid law enforcement agencies. Consists of tension wrench, three needles and Lockaid "Gun." Prices include a copy of the book "Lock Picking Simplified."

Lockaid \$69.95



PIX MODEL 13

This deluxe yet compact kit features 11 of the most commonly used tools. Comes in a slim cowhide leather case for discreet undercover operatives. As a special bonus, a 5 piece set of **warded picks** is included. A 16 piece set total. Also included, a copy of "Lockpicking Simplified." Receive all this at a Low price of:

Pix 13 \$42.95



PIX-QUICK MODEL A

These high quality picks feature new lighter non-breakable plastic color coded handles. Picks are of .022 blue spring steel... hardened to perfection. Eight piece set comes with handy see-through case with two extra pockets and a copy of "Lockpicking Simplified."

Model A \$22.95



PIX-QUICK MODEL B

Same color coded set as Model A. Only with deluxe 13 pieces. Price includes tension wrench and book.

Model B \$29.95

PIX-EZ All-In-One Pick-Set

100% American Made! As convenient to carry and use as a pocket knife!

Only 4 inches long, half inch square, weighs under five ounces, works fast and opens pin and waster tumbler locks quickly, with very little effort. Six tempered spring steel picks, tension wrench.

\$34.95



WKS PICKS

Made of the finest blue tempered spring steel this 5 piece padlock pick-set is a must in every locksmith's tool box. This set will pick open most every warded padlock made today.

\$9.95



Lockpicking Simplified	\$7.00
Complete Guide to Lockpicking	\$12.00
Improvised Lock Picks	\$9.95
Tubular Locks	\$8.95
Lockout and forced entry	\$8.95

Safe & Valut manipulation	\$9.95
How to Pick Pins & Wafers	\$9.95
Combination Locks	\$7.00
Keys by Impressioning	\$7.00
Key Casting Manual	\$8.95

NEW ITEMS

MONTHLY SPECIAL

Receive a combination set, includes Pix Quick Model A, Double sided Disk tumbler Picks, Sesame Decoder and a schlage Wafer.

An \$96.80 Value at a low price of \$69.95



ESP-13

This handy new pick set is the most popular set among professional locksmiths today. This kit consists of 12 different tools housed in a handsome black leather case designed for a shirt pocket. Included in the price, you receive a 5 piece warded key set and a copy of "Lockpicking Simplified." 17 piece set total.

ESP-13 \$45.95



KEY RING PICK SET



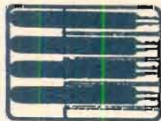
This unique design is ideal when low profile is required or to keep on your keyring for emergencies. Contains a tension wrench, three picks and the "Key Pick."

Key Ring Pick Set \$27.95

DOUBLE SIDED DISK TUMBLER PICKS

Set of 4 picks designed to be used on the most popular double-sided disc tumbler, showcase, cam and padlocks.

\$27.95



MINI PICK TUBULAR

The most effective tubular pick on the market, unlike the larger picks with long handles or screwdriver handles. The longer the tool, the more pressure needed which causes easy breakage. The advantage of the Mini Pick is it is so short, you only use your thumb and index finger. With a little practice this tool will open a tubular lock in less than a minute. A. Your Choice: (1) Center (2) Offset left (3) Offset right; B. "Segal" 8 pin tubular; C. 5-pin Tubular; D. 6-pin Tubular; E. 8-Pin Ace.

\$69.95

SESAMEE DECODER

This tool was designed to decode the exact combination of a sesame padlock without damaging the lock. Detailed instruction included.



\$17.95

SCHLAGE WAFER

The most fantastic tool you will ever use. This set consists of two base keys and pick. Complete instructions included.

\$27.95



MD16

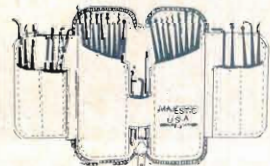
Shirt Pocket Size, Top Grain Cowhide Leather, Zippered Case, has 16 Picks, Tension Wrenches and Broken Key Extractor.

\$59.95

MD32

Hip Pocket Size, Top Grain Cowhide Leather, Zippered Case, has 32 picks, Tension Wrenches, Broken Key Extractor.

\$69.95



MD60

Top Grain Cowhide Leather, Zippered Case, has 60 picks, Tension Wrenches, Broken Key Extractor and Warded Master Keys.

\$89.95

Orders over \$100
Free Shipping
Catalog \$2.00
Free with order.
Sorry, no credit card orders



The law requires all purchases be made in good faith, without make believe or fraud by genuine persons within this industry

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Steve Arnolds
Gun Room
P.H. \$3.00
Overseas \$6.00
Must be 18 years
of age

P.O. Box 613, Dept. SG11, Dexter, OR 97431 (503) 726-6360

NITRO-PAK:

AlpineAire Foods

An innovator of non-perishable food systems since 1975...

Staff Evaluation



Gourmet Reserves offers a full line of delicious, healthy meals for the outdoor enthusiast or for those who desire more tasty and nutritious storage foods.



Simply tearing open a pouch and adding hot water and stirring makes a delectable meal for at least two persons in minutes.

Since 1975 AlpineAire has supplied quality meals to outdoor adventurers who know that the food they eat has a lot to do with their physical and mental performance in the field. AlpineAire has accompanied expeditions to the world's most remote and inaccessible spots, from the farthest reaches of Antarctica to the summit of Mt. Everest. Since its introduction, campers, sportsmen, and major expeditions have recognized AlpineAire's Gourmet Reserves as one of the superior lines of recreational foods available today.

Gourmet Reserves offers a wide variety of delectable, healthy meals and staples appropriate for any situation requiring shelf-stable food storage: emergency preparedness, expedition base camps, stocking cabins or boats, or anywhere fresh food or refrigeration isn't available. Many of Gourmet Reserves' ingredients are freeze-dried; they not only keep for extended periods, they reconstitute as close to their natural state as possible. All meals are protein balanced and formulated to provide as complete nutritional value as possible. Foods containing complex carbohydrates are maximized to provide a reliable energy source during times of mental and physical exertion.

For maximum storage life each meal is sealed in its own separate pouch and then a number of pouches (usually three or four) are vacuum packed and nitrogen flushed in heavy gauge metal, enamel-coated cans. A state-of-the-art oxygen absorber is also packed inside to maintain freshness and ensure a long shelf life.



Three packages (two servings per package) of each entree are sealed in each #10 can.

The food is free of preservatives, artificial colors or flavors, refined sugars and MSG. We did note that the salt content could be considered slightly high for those on a restricted sodium diet, but for backpackers and physical outdoor people, the salt would be beneficial. The Beef Stroganoff dinner has 858 mg of sodium per 1½ cup serving. Each pouch contains two servings.

The nice thing about Gourmet Reserves complete meals is that they require no cooking. Just add hot boiling water to the food pouch and wait 5 to 7 minutes. There's no need to mess with dirty dishes or cooking pots.

We tried the Mountain Chili meal and the Beef Stroganoff with Noodles. Both were easy to prepare and tasted very good. The vegetables were tender and not crunchy or chewy and the flavor was delicious, not the usual overpowering spice concoction used in many dehydrated camping meals.

Prices are very reasonable starting as low as \$2.95 for individual pouches to \$8.95 for the cans containing three to four pouches. For more information contact: NITRO-PAK Storage Foods & Supplies, 13243 E. Rosecrans Ave., Dept. ASG, Santa Fe Springs, CA 90670, (213) 802-0099. ●

ATTENTION

IF YOU OWN ANY SEMI-AUTOMATIC WEAPON ON THE LIST BELOW:

AR 15 & CAR 15, ARMALITE AR 180, AK 47 CONFIGURATION, SKS TYPE 56,
BERETTA AR 70, FAL, MINI 14, MINI 30,
MAC 11/9, TEC 9, TEC 22, HK 91, 93, 94, MIA, 30 CARBINE, DAEWOO K1, K2

Have you considered converting any of these to full automatic select fire but red tape or jail time got in the way? Have you wanted to "Rock 'n Roll" and bought toys with cranks, levers, or three bursts that didn't work! WELL, the **HELL-FIRE™** trigger actuation system is here! You won't ever find anything closer to a select-fire conversion. BATF approved and legal. How the "Hell-Fire™" system works: When the unit is installed behind your trigger in seconds, it can be micro adjusted to create a "static" condition. This condition is offset when you pull your gun's trigger and countered by the bolt action. You actually will "FEEL" the trigger move against your finger at the same rate your gun would fire if it were converted to full automatic. More than anything else the "Hell-Fire™" trigger actuation system works!

HELL-FIRE

P.O. Box 549,
Olathe, CO 81425

TM **SYSTEMS, INC.**



BUT ONLY 29.95 COMPLETE!

- USES YOUR TRIGGER
- ALL METAL
- LIFETIME GUARANTEE

(U.S. Pat. & Other Patents Pend.)

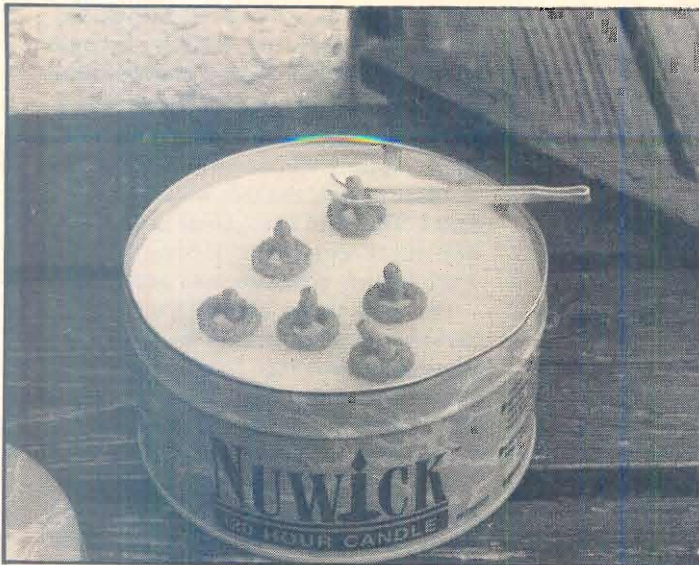
Please send me **"Hell-Fire™"** systems at 29.95 each
TO: NAME _____
ADDRESS _____
CITY, STATE, ZIP _____

Orders only — Call 1-800-833-4370
DEALERS JUMP ON THIS!

Nuwick Incorporated:

Nuwick Candle

A 120-hour candle with reusable wicks. . .

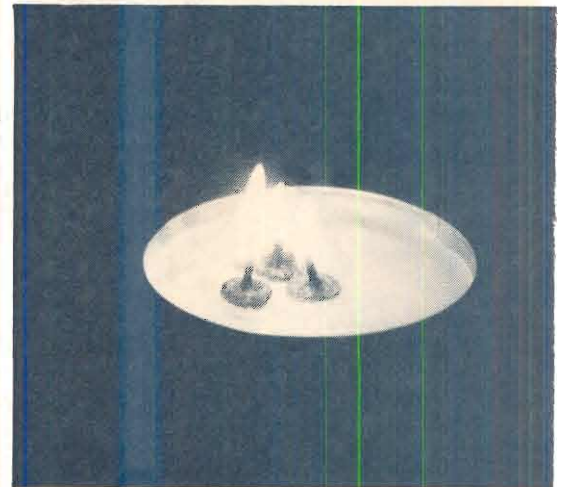


The Nuwick 120-hour candle comes with six waterproof wicks.



For more light or heat, simply add another wick.

Included with the removable wicks are tweezers and a box of matches.



Staff Report

BRIGADE QUARTERMASTERS OUTDOOR ACTION GEAR® UNIQUE CLOTHING & EQUIPMENT FOR SURVIVAL

Our 100 page Action Gear® Catalog has everything for adventuring, survival, law enforcement, military duty, hunting, or just roughing it in the great outdoors. Leather flight jackets, sweaters, footwear, knives, clothing & equipment. We search worldwide for no-nonsense, unique & functional gear. Order your copy today!

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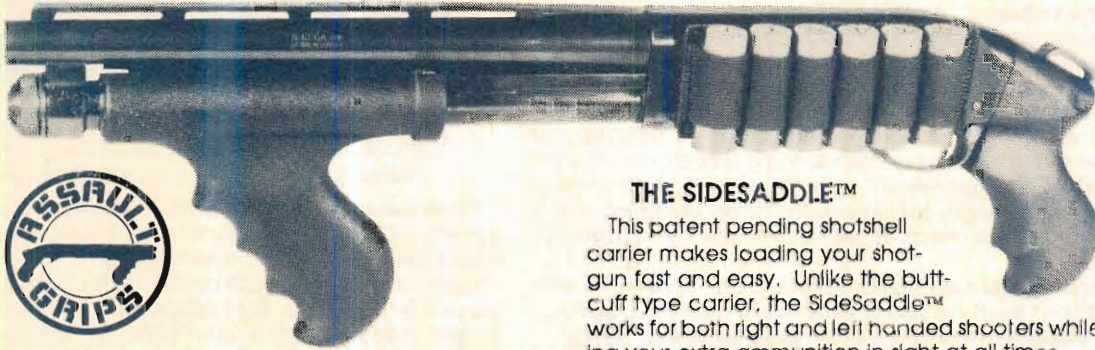
66K

Nuwick is the first movable, reusable, non-toxic, and waterproof light source available today and will enable you to utilize all of the wax. Each 120-hour candle includes: six movable wicks (each wick burns for over 25 hours), 14 ounces of specially formulated slow-burning wax, one tweezer and one book/box of matches.

Nuwick is safe because of its low-temperature paraffin. If your skin should come in contact with it you will not be scalded. Also, Nuwick has been formulated so that it can be stored in the trunk of your car without melting. Like a can of Sterno, the candle can be used as a heat source for cooking. Simply light a few more wicks for added heat. While Sterno creates noxious fumes, the Nuwick candle burns clean. Suggested retail price is \$9.95. For more information contact: Nuwick Incorporated, P.O. Box 7962, Dept. ASG, Van Nuys, CA 91409; (213) 396-3135. ●

ADVENTURER'S OUTPOST

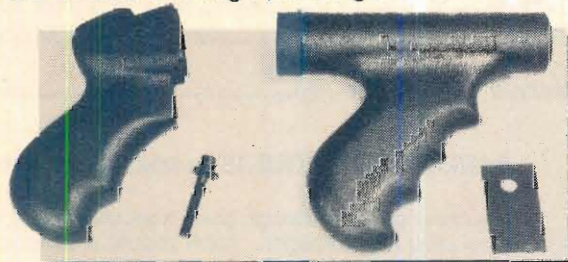
HI-TECH FIREARM ACCESSORIES



SHOTGUN ASSAULT GRIPS

The design of the ASSAULT GRIPS, borrowed largely from the Thompson Submachine Gun, allows the energy from the shotgun's recoil to be transferred evenly to both hands. The shape, the angle and the fingered notches all add up to painless and positive control. Both speed of firing and pointability are increased with the use of the ASSAULT GRIPS.

Injection molded from a high-impact ABS polymer, the ASSAULT GRIPS are shaped to fit the shotgun perfectly and are textured with a light pebble grain finish.



Installation of these grips takes only a few minutes and requires NO ALTERATION TO THE SHOTGUN. Included are complete instructions, hardware for mounting the rear grip and a special wrench for mounting the forend grip. (Specify type of shotgun when ordering).



REMINGTON 870

WITH ASSAULT GRIPS

THE SIDESADDLE™

This patent pending shotshell carrier makes loading your shotgun fast and easy. Unlike the butt-cuff type carrier, the SideSaddle™ works for both right and left handed shooters while keeping your extra ammunition in sight at all times.

The mounting plate is made from 6061 T 6 aluminum and the shell holder is made from the finest nylon webbing and elastic shell loops. Each SideSaddle™ comes complete with instructions and all the necessary mounting hardware. Installation is easy and requires NO ALTERATION TO THE SHOTGUN.

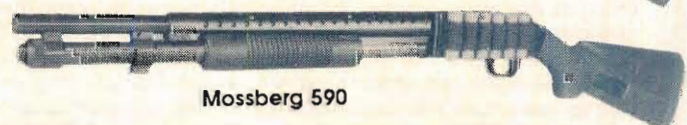
MODELS AVAILABLE FOR THE 12 GAUGE



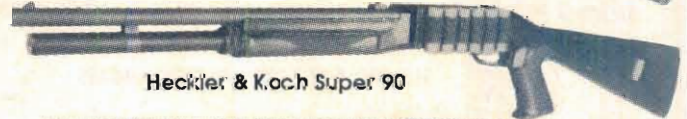
Winchester 1200



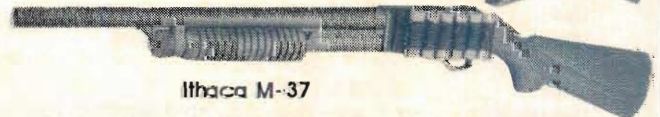
Remington 870



Mossberg 590



Heckler & Koch Super 90



Ithaca M-37

"It is difficult to find aftermarket products that aren't flawed in some respect, but the SideSaddle™ may be the exception to the rule."—Louis Awerbuch/SWAT Mag.

Rear Grip.....\$16.95

Item # RG-MOSS

(Mossberg 500)

Item # RG-REM

(Remington 870)

Item # RG-WIN

(Winchester 1200)

Forend Grip.....\$19.95

Item # FG-MOSS

(Mossberg 500)

Item # FG-REM

(Remington 870)

Item # FG-WIN

(Winchester 1200)

THE SIDESADDLE™.....\$24.95

Item # SS-REM (Remington 870, 1100 & 1187)

Item # SS-MOSS (Mossberg 500 & 600)

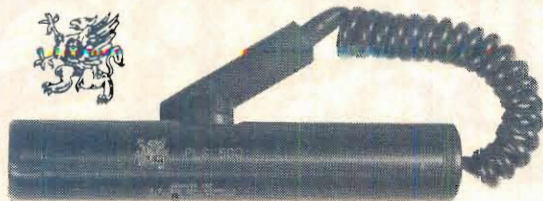
Item # SS-WIN (Winchester 1200 & 1300)

Item # SS-HK (Heckler & Koch Super 90)

Item # SS-ITH (Ithaca M-37)

Item # SS-ITHL (Ithaca M-37 Left Hand)

THE GRYPHON PLS 500 SOLID STATE LASERSIGHT



The PLS 500 offers many new features over any other lasersight on the market. This lasersight is controlled by a remote pressure switch on a coiled cord that expands to over 18 inches which offers a greater flexibility in the placement and mounting of the lasersight. All of the sighting adjustments (windage and elevation) are done internally with the new click adjustment system designed especially for this lasersight. This unit is waterproof up to 100 feet and operates on 3 AAA batteries that power the laser for 6 hours continuous, which translates to months of use (under normal conditions). Replacing the batteries is done by simply unscrewing the end cap. The PLS 500 is small and lightweight (5.0 inches long, 1.0 inches in diameter and weighs 5.0 ounces including batteries) and is housed in a black anodized aluminum tube that is laser engraved.

Gryphon produced the first production American made lasersights on the market and continue to offer the best functionally designed and operating lasersights for the 1990's.

Item # PLS 500\$399.00

THE GRYPHON PLS 300 SOLID STATE LASERSIGHT



Introducing the latest in the Gryphon Lasersight line—the New PLS 300. This new lasersight boasts the same quality construction as the top-of-the-line

PLS 500, in a very affordable package. Like the PLS 500, this lasersight is small and lightweight and is easy to mount on your shotgun, rifle, pistol or bow. The main differences between the two lasersights are; the PLS 500 has a more powerful diode laser beam, the PLS 300 uses the standard 'scope type' adjustments versus the 'click adjustment' system on the PLS 500 and, of course, the price. The PLS 300 is a quality unit at a great price.

Item # PLS 300\$289.00

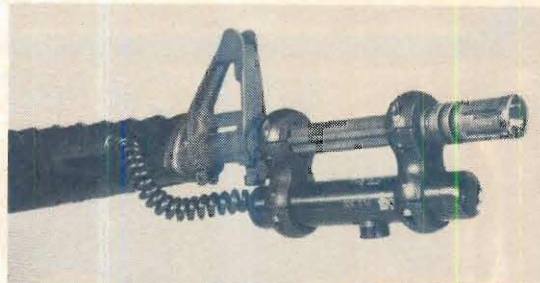


PLS 500 & PLS 300 SPECIFICATIONS

Size:	5.0 inches long, 1.0 inch diameter
Weight:	5 ounces including batteries
Construction:	6061 T 6 aluminum
Finish:	Black anodized
Adjustment:	8 ft. movement (wind & elev.) @ 100 yds.
Operation:	Remote pressure switch
Power:	PLS 500—4.75 milliwatts continuous PLS 300—3.0 milliwatts continuous
Type:	GaAlAs laser diode @ 670 n.m.
Power Supply:	3 AAA batteries (supplied)
Beam:	PLS 500—4 inch diameter @ 100 yds. PLS 300—6 inch diameter @ 100 yds.
Range:	PLS 500—500 yds. plus (at night) PLS 300—300 yds. plus (at night)
Warranty:	2 years unconditional
Environmental:	Shock tested to 2000 g for 10 ms. Waterproof up to 100 ft.

TACTICAL BARREL MOUNTS FOR THE PLS 500 and Other 1-inch Diameter Lasersights

The lasersight can be mounted on any location on a firearm that is most practical. By mounting the lasersight on the barrel, full freedom of movement and manipulation of the firearm including the use of standard sights is possible. We have designed a line of barrel mounts for this purpose.



Barrel to Laser (TBM-C) on AR-15/M 16 HBAR

These mounts weigh less than 4 ounces and, coupled with the PLS 500, the total weight is under 9 ounces which does not affect the overall balance of the firearm.

The Tactical Barrel Mounts come in sets of 2 and include a hex wrench for mounting. They are precision machined from 6061 T 6 aluminum insuring a proper fit and tight lockup to the barrel. Each mount has a hard black anodized finish.

Item

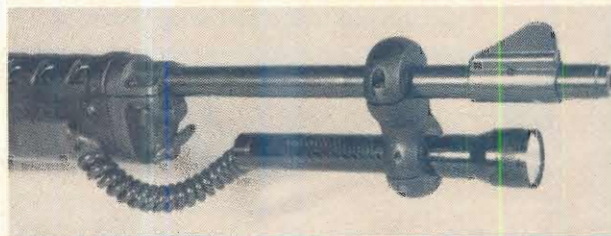
Fits

TBM-A.....	(Scope, Shotgun Magazine—diameter 1.005-.995)
TBM-B.....	(Shotgun Barrel—diameter .860-.850)
TBM-C.....	(AR-15, M 16 HBAR—diameter .730-.720)
TBM-D.....	(Uzi, Mini-30—diameter .630-.620)
TBM-E.....	(FN FAL, AKs, SKS—diameter .620-.610)
TBM-F.....	(HK-94, M1-Ccrbine—diameter .600-.590)
TBM-G.....	(AR-15, M 16—diameter .580-.570)
TBM-H.....	(Mini-14—diameter .560-.550)

Item # TBM (A thru H).....\$39.95

BARREL LIGHT MOUNTS for Mini AA Flashlights

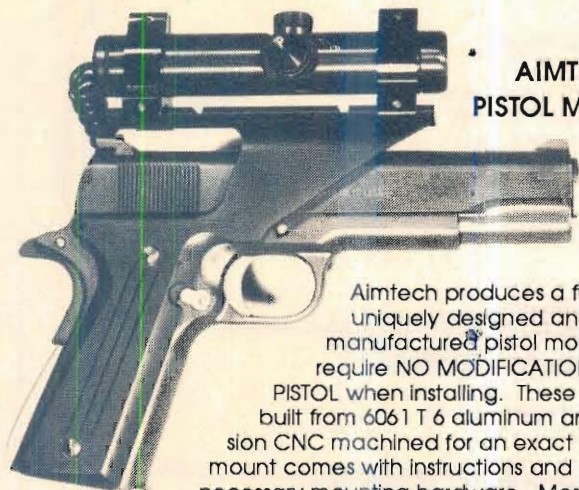
The double ring clamp design gives a secure lockup to both the barrel and the flashlight. Each mount is precision machined from solid 6061 T 6 aluminum and comes in a hard black anodized finish. Included with the mount is a no-mar flashlight bushing machined from black nylon and a hex wrench. Installation is quick and easy.



Barrel Light Mount on a Ruger Mini-14

The barrel Light Mounts (BLM) are the same as the Tactical Barrel Mounts (TBM) except, with the Barrel Light Mount, only one double ring clamp is required instead of two for the Tactical Barrel Mount, and a nylon bushing is included with the Barrel Light Mount. When ordering, refer to TBM A thru H for sizes.

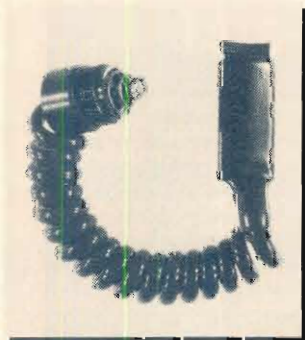
Item # BLM (A thru H).....\$19.95



AIMTECH PISTOL MOUNTS

Aimtech produces a full line of uniquely designed and quality manufactured pistol mounts that require NO MODIFICATION TO THE PISTOL when installing. These units are built from 6061 T 6 aluminum and precision CNC machined for an exact fit. Each mount comes with instructions and all of the necessary mounting hardware. Most models are available in a hard black or clear anodized finish to match a blued or stainless firearm. For a pistol mount for your scope or lasersight...you can't beat the quality, function and appearance of the Aimtech Pistol Mounts.

Item #	Fits	Price
AMSK-1 (Black)	SMITH & WESSON K FRAME...	\$59.95
AMSK-2 (SILVER)	SMITH & WESSON K FRAME...	\$59.95
AMSL-1 (BLACK)	SMITH & WESSON L FRAME...	\$59.95
AMSL-2 (SILVER)	SMITH & WESSON L FRAME...	\$59.95
AMSN-1 (BLACK)	SMITH & WESSON N FRAME...	\$59.95
AMSN-2 (SILVER)	SMITH & WESSON N FRAME...	\$59.95
AMST-1 (BLACK)	TAURUS 65/66/669/80.....	\$59.95
AMST-2 (SILVER)	TAURUS 65/66/669/80.....	\$59.95
AMSA-1 (BLACK)	ASTRA .44 MAGNUM.....	\$59.95
AMSA-2 (SILVER)	ASTRA .44 MAGNUM.....	\$59.95
AMSR-1 (BLACK)	ROSSI 85/851/951/etc.....	\$59.95
AMSR-2 (SILVER)	ROSSI 85/851/951/etc.....	\$59.95
APM-1 (BLACK)	GLOCK 17/17L/19.....	\$59.95
APM-2 (BLACK)	SMITH & WESSON 459/659.....	\$49.95
APM-3 (BLACK)	SMITH & WESSON 645/745.....	\$49.95
APM-4 (SILVER)	SMITH & WESSON 645/745.....	\$49.95
APM-5 (BLACK)	RUGER MK I/MK II.....	\$39.95
APM-6 (BLACK)	AMT AUTO MAG II.....	\$49.95
APM-7 (BLACK)	GOVT. .45 MOUNT.....	\$49.95
APM-8 (BLACK)	BROWNING HI-POWER.....	\$49.95



PRESSURE SWITCH END CAP

The Pressure Switch End Cap fits both the Streamlight Jr. and the Mini-Maglight. It replaces existing end caps and serves as a remote 'on-off' switch. It comes with a coiled cord that expands to over 18 inches and Velcro tape for applying the pressure switch in its most convenient location.

Item # PSEC.....\$12.95

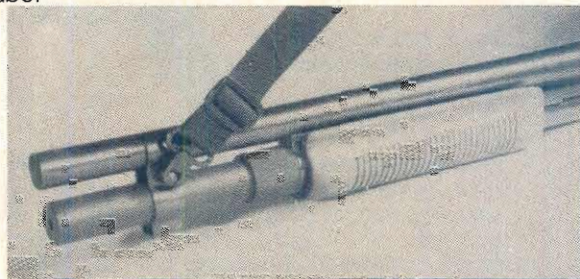
Call Toll Free (800) 762-7471
or FAX (602) 634-8781

MAGAZINE EXTENSIONS

for Remington 12 Gauge 870, 1100 & 11-87 Shotguns

These extensions are made from super strong 4130 chrome-moly steel tubing and are guaranteed for life. Each part of this extension has been precision machined on a CNC lathe for an exact fit. The entire unit has been finished in a mil spec black chrome sulfite. A new spring, specially designed for each size extension, is also included with complete installation instructions. These extensions install in minutes and REQUIRE NO ALTERATION TO THE SHOTGUN.

The 7-shot extension fits an 18 inch barrel and allows for 2 extra rounds in the magazine tube. The 8-shot extension fits a 20 inch barrel and allows for 3 extra rounds in the magazine tube.



Magazine extension, barrel magazine clamp & QD swivel.

Item # RME-7 (seven shot).....\$29.95

Item # RME-8 (eight shot).....\$29.95



Left--Barrel/Magazine Clamp with swivel stud.

Right--QD Swivel attaches to swivel stud with the push of a button.

BARREL/MAGAZINE CLAMP

The Barrel/Magazine clamp gives extra support between the barrel and the magazine. It is also used for mounting a forward sling loop for sling attachment. Included with each unit is a swivel stud which works well with the QD Swivel.

Item # BMC-R.....\$5.95

Fits Remington 870, Mossberg 500 & Winchester 1200.

Item # BMC-U.....\$5.95

Fits Remington 1100 & 11-87

1-INCH QD SWIVEL

The QD Swivel is made of blued steel and quickly attaches and detaches to a swivel stud with the push of a button.

Item # QDS.....\$3.95



1-INCH NYLON BUSHINGS

These Nylon Bushings allow a mini flashlight to be mounted in any 1-inch scope ring. This enables you to use any scope mount to attach your flashlight to your firearm. They are machined from durable black nylon.

Item # NB-1 (2 Bushings)....\$3.95

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THE FALCON FOLDER Quality Sporter Folding Stocks

The Falcon Folder features one of the best quality folding mechanisms ever designed. The butt plate, in its closed position, securely locks the folding arm to the side of the stock and opens quickly by pressing the side-mounted release button. The pivot area of the folder has been engineered with an extra long engagement slot to ensure a tight and rattle free lockup when extended. These precision machined folding mechanisms are finished in black or electroless nickel to match a blued or stainless firearm.



All metal folding mechanism,
black walnut forend and
A2 style pistol grip.



Ruger Mini-14

The forend is made from high quality American black walnut and CNC precision inletted for a drop-in installation. The Falcon Folder includes an A 2 style pistol grip, one-inch QD swivel and sling stud for a top or side-mounted sling loop. The Falcon Folder fits the Ruger Mini-14 and Ruger Mini-30. (Available soon for the M 1 Carbine and the Marlin Camp .45 and 9 mm.

Item # FF-14 (Mini-14).....\$134.95
Item # FF-14S (Mini-14 Stainless).....\$149.95
Item # FF-30 (Mini-30).....\$134.95

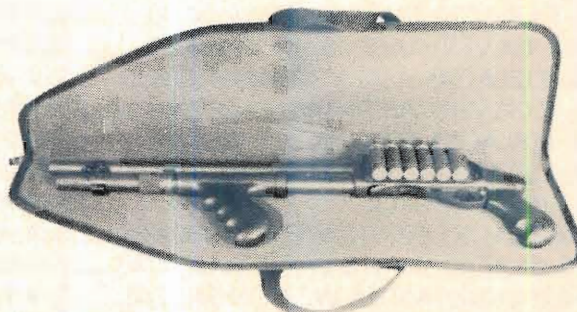


Included with the Falcon Folder is a one-inch QD Swivel and Sling Stud for a top or side-mounted sling loop.

PISTOL GRIP SHOTGUN CASE

This case was specially designed for the pistol gripped shotgun. Its outside dimensions are 9x33 inches and will accept a shotgun with up to a 21-inch barrel. It is made from Cordura™ with 3/4-inch foam padding and a soft nylon material inside. The handle is a one piece wraparound made from heavy nylon webbing.

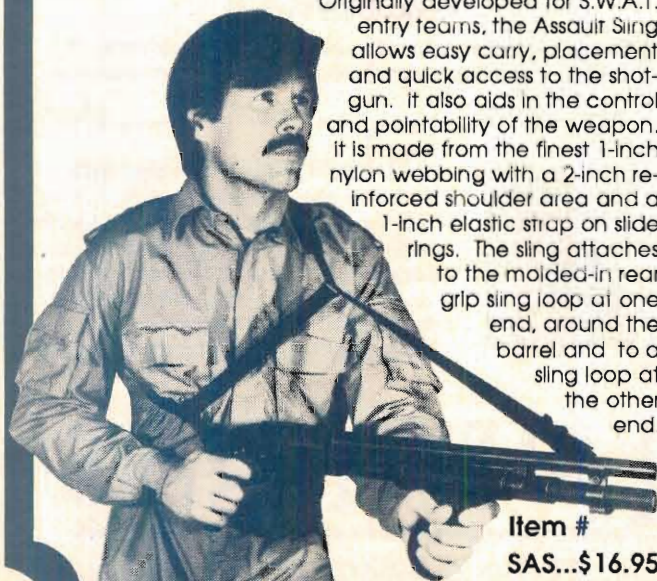
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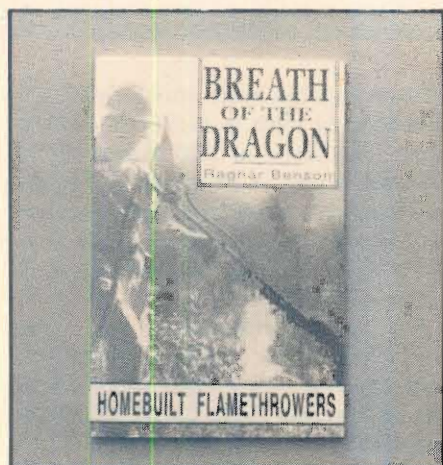
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BOOKS/VIDEOS

(Continued from page 11)

Keep it Secret, Low-cost Electronic Countermeasures to defeat taps and bugs. CEP Inc., P.O. Box 865, Boulder, CO 80306; (303) 443-2294. VHS, 60 minutes. \$59.95.

Keep it Secret is the first hands-on, how-to electronic countersurveillance videotape that teaches you how to stop others from spying on you 95 percent of the time. Although this is a technically oriented tape, the step-by-step instructions will show anyone how to track down eavesdroppers. Unlike other videos that simply display the equipment, this tape teaches you how to protect your home, office and personal life by taking you through real scenarios in which actual units are uncovered. Follow the advice of counter-surveillance and intelligence professionals and learn to use common electronic equipment that is just as good as (or better than) the trendy, high-tech stuff — at a fraction of the cost.



Breath of the Dragon, Homebuilt Flamethrowers, by Ragnar Benson. Paladin Press, P.O. Box 1307, Dept. ASG, Boulder, CO 80306; (303) 443-7250. 65 pages, soft cover. \$12 plus \$3.50 shipping.

Flamethrowers are legal, easy to build and operate, and use fuel that is cheap and plentiful. They are strictly a defensive weapon, useful from set (and often hidden) positions. This book provides the history of flamethrowers, the know-how on how to make them, and instructions on making napalm. Raw, unlit, thickened napalm, when thrown into aggressors up to 150 feet away, may control the situation even without having to denotate the jellied explosive. For information purposes only. ●

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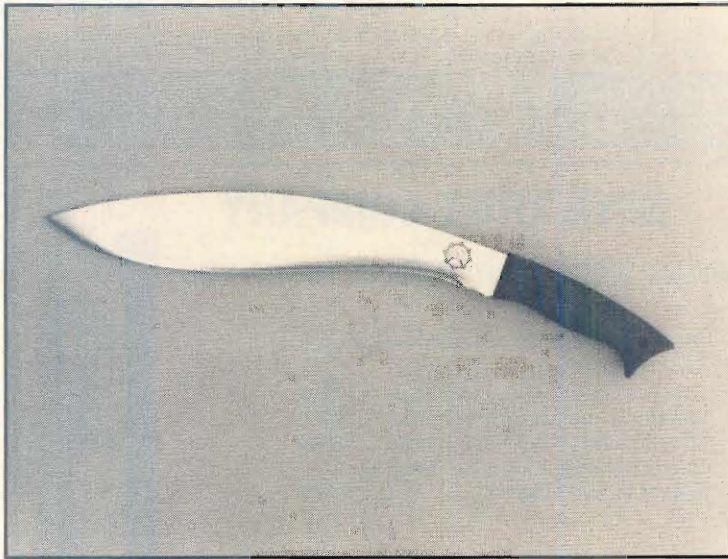
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Ancient, Effective Design:

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Staff Report

IN 1988 Blackjack Knives engaged renowned edged weapons historian Hank Reinhardt of Atlanta Cutlery's Museum Replica Division to design and prototype a Kukri knife for 1990 production.

The unique kukri has its roots in the Kingdom of Nepal where it has been used for centuries on the rugged terraced slopes of the Himalayas for every task encountered in the field. The fierce Gurkha soldiers from Nepal who have served in the British military for the past 175 years have always carried kukri knives.

The kukri, which is an increasingly popular blade style with contemporary knife makers, has been made in many sizes and styles over the centuries. The new Blackjack Combat Kukri was intended to be a blade that would take the stress needed for heavy chopping. The steel chosen is a high carbon stainless alloy enhanced with vanadium and molybdenum. This alloy has metallurgical advantages for strength and flexibility, edge taking and edge holding.

The Blackjack Kukri is ground with

a full height convex grind which, according to Blackjack, is done like the original kukris and has proven to outperform conventionally ground blades. Each Blackjack Combat Kukri has its final grinding, polishing and sharpening done by hand. The special alloy requires atmospherically controlled heat treating and a double temper. For maximum field performance Blackjack also cryogenically treats every blade.

The extra hard black Kraton rubber handle provides a positive and secure

grip on this big knife. Its blade is 13½ inches long with a 12½-inch cutting edge. The blade is .200 inches thick. Overall length is 18½ inches. Weight is 24 ounces. Each Blackjack Combat Kukri comes with a lined black Cordura nylon sheath. Suggested retail price is \$179.95.

For more information ask your knife dealer or contact Blackjack Knives, Dept. ASG, 7210 Jordan Ave., #D-72, Canoga Park, CA 91303; (818) 902-9853. ●



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Other books & manuals on the Rangers & Military Science

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.308 civilian semiautomatic made with U.S. military parts assembled on a new receiver. . .

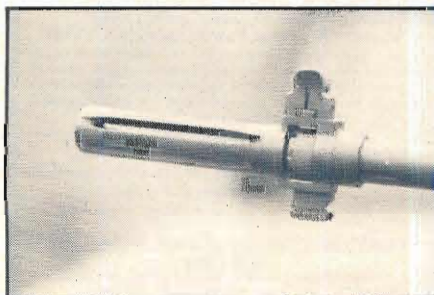
Staff Evaluation



Test shooters were impressed with the accuracy of the Armscorp M14. Using the iron sights the rifle blew this lens out of a pair of shooting glasses at 70 yards.



The test Armscorp M14 had a new walnut stock.



Except for the receivers and optional new wood stock, these M14s are made with used excellent condition forged U.S. military parts.

YEARS ago we carried an evaluation of the Armscorp Of America, Inc. Israeli FAL rifles (standard and heavy barrel models) and the evalu-

ator judged them "very sensibly priced, reliable, straightforward" firearms.

We recently had the opportunity to test shoot the Armscorp M14 rifle. This

semiautomatic rifle, as we understand it, is made from genuine used, excellent condition, surplus U.S. military parts assembled on new Armscorp match grade receivers.

These rifles can be purchased through dealers with either very good condition original issue U.S. G.I. stocks in wood or fiberglass or with brand new walnut stocks. We were loaned a new walnut stock Armscorp M14 from Beach Cities Armoury, Inc. (1103 Aviation Blvd., Hermosa Beach, CA 90254; 213-374-2227).

Using some Portuguese NATO military ball 7.62x51 mm ammunition (.308 Win.), we ran close to 100 rounds through this gun at a public shooting area, firing from a standing position with shoulder aimed fire and from a rest.

We experienced no malfunctions whatsoever in our limited test firing session, and we found the Armscorp M14, if this rifle is typical of their line, to be superbly accurate. Shooting from a rest with the excellent iron sights we knocked a lens out of a pair of broken shooting glasses hung on a target 70 yards away.

In conversations with an M14 gunsmith and match shooter recently, we heard some criticism of the early Armscorp M14 locking lug configuration on the Armscorp receivers. This problem has been corrected, we were told. In any event, we had no problem with our test piece and although we fired less than 100 rounds through it, we were impressed with its performance and shooting qualities.

This rifle is heavy, weighing in at just under 10 pounds with empty magazine and the full walnut stock. Other specifications are the same as for any standard M14.

While our experience with this particular rifle was limited, we like it nonetheless and would like to spend some more time at the range with it before we give it back. ●

AMERICAN SURVIVAL GUIDE/NOVEMBER 1990 47

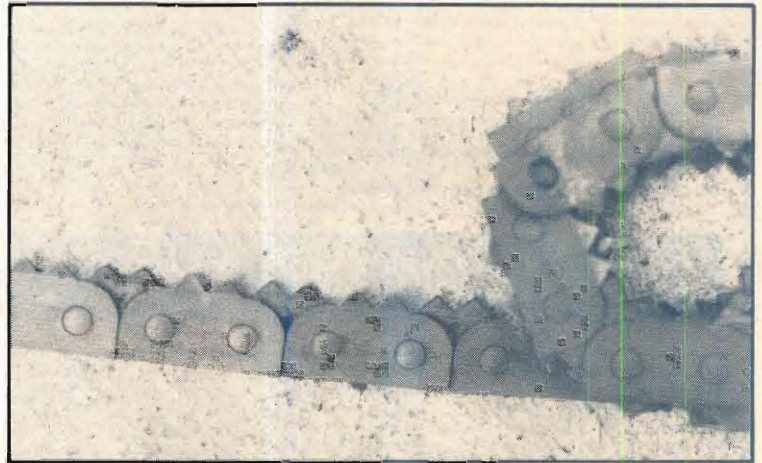
True Vine Corporation:

Short Kutt Pocket Chain Saw

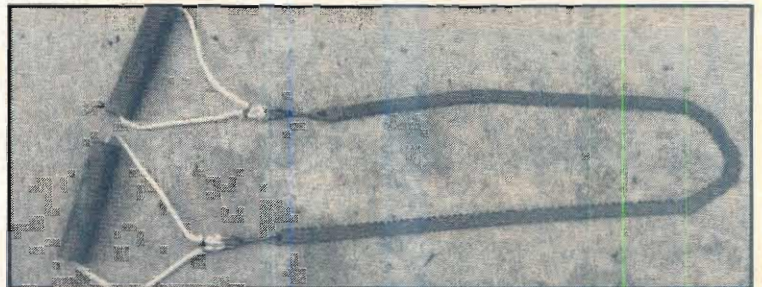
Over 140 bi-directional cutting teeth...



The saw itself is stowed away in a protective metal tin.



140 bi-directional teeth make quick work of tree limbs and logs.



Wooden handles on the Hunter model clip into each end of the saw.

Staff Evaluation

The small wire saws included in hollow handle survival knives and pocket survival kits can cut small branches, but when constructing a temporary shelter with poles and small logs, something more substantial is needed. The Short Kutt Pocket Chain Saw fits inside a small tin (the size of a chewing tobacco can) but can quickly saw through larger diameter limbs in seconds.

Made of high strength heat-treated steel, the 31-inch saw has 140 bi-directional cutting teeth. Instead of abraiding the wood material with only four to eight teeth, you are swiftly cutting through material with 12 dozen teeth as if it were butter. We tested the saw on a number of 2 to 3-inch tree limbs and were impressed with the ease of use and the speed of the Short Kutt.

The saw cut through these limbs like butter.

The Short Kutt is available in three models. The deluxe model includes the Short Kutt Chain Saw, Lexan collapsible handles, and a Cordura belt pouch with Velcro closure and retails for \$29.95. The Hunter model has hardwood handles and retails for \$24.95. The Military/Survival model comes with ring handle brackets for cut-your-own wood handles and retails for \$19.95. For more information contact: True Vine Corporation, P.O. Box 4092, Dept. ASG, Center Line, MI 48015; (313) 759-6698. •

The Short Kutt Pocket Chain Saw requires little effort and can quickly handle home and wilderness chores.



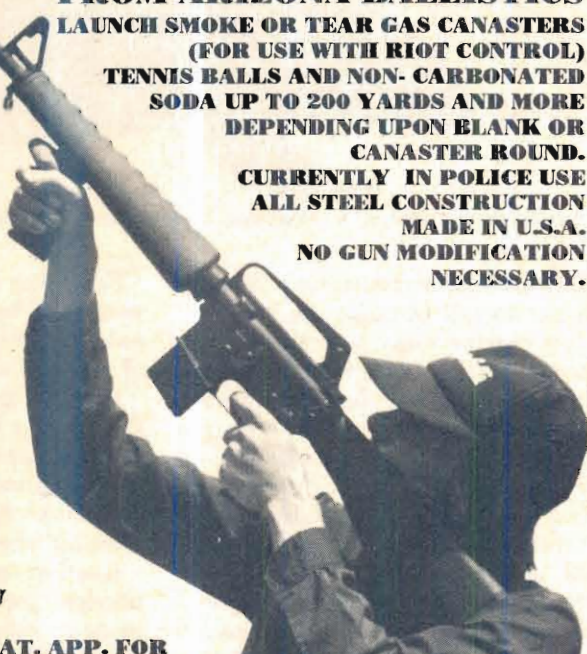
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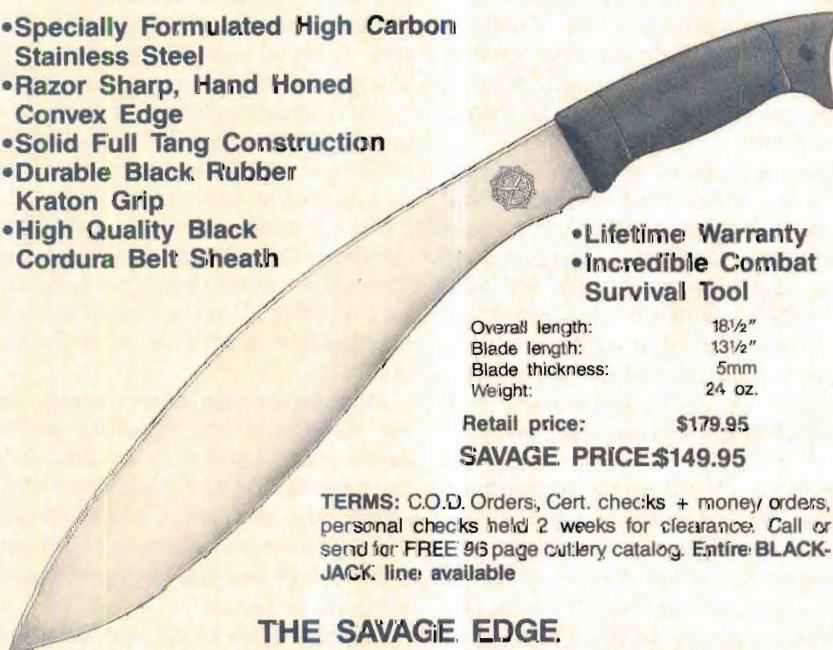
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Deep Freeze

(Continued from page 27)

in your lap. This could be a real morale buster.

Practice and experience will allow you to work at a faster, more efficient rate. Weigh all the factors, make a plan and commence. Don't be distracted by those coyotes howling in the distance. You may take a finger off with your axe.

Food, Drink — The human body generally uses up quite a few more calories in cold weather than warm, during the course of a day. And water, despite the lack of heat, still plays a vital role in your survival and metabolism.

Hunting and trapping in the winter is often easier than in the warmer months, by virtue of three facts — tracking is easier in the snow, the vegetation is greatly reduced providing you with better visibility and game tends to gather into groups, depending on the species, of course.

On the other hand, plants to be used as sustenance or for medicinal purposes are drastically reduced in number. I didn't say this was going to be easy.

Wire used in snares can become brittle in cold temps, especially when it falls well below zero. Try using a double strand of wire, twisted together. Rub ash or apply conifer resin to the wire to help mask the human scent.

If hunting is more your bag, you will already be intimately familiar with the importance of good marksmanship. Your skills with that rifle or shotgun, or maybe even a handgun, could mean meat on the table. Here in Maine and in many other regions of North America, White-tail deer "yard up" in the winter, sometimes gathering in herds of several hundred. A Forest Ranger deep in the Allagash region of northern Maine recently told me of just such a "yard."

When it comes to water, melting snow is one of the least desirable methods of acquiring water. Depending on the density of the snow, it may take up to 25 cups of snow to produce one cup of water. That's a lot of effort for so little water.

Chipping through the ice of a frozen-over stream or creek is frequently a much wiser idea. Even the effort it takes to chop a hole through a frozen lake, bog or pond may prove smarter than melting snow. Remember to purify



A 3-pole A-frame shelter can be outstanding for winter survival and is easy to construct (Bob Newman).

all water before consumption. Be careful not to fall through the ice.

Topographic maps sometimes show known springs. Don't expect to find a picture-perfect, bubbling spring hole, though that may be in fact what you do find. Sometimes, springs are no more than a trickle coming up through the moss or rocks. Even in the middle of the coldest winter, many springs will be running free.

Medical skills, particularly those of the emergency nature, often become more difficult to practice in winter. It is vital that you keep your hands warm at all times. How deftly you can wield a scalpel or needle and thread may determine if a life is saved, or not.

Hypothermia — the lowering of the body's core temperature — is always a threat to be taken seriously, as is frostbite — the freezing of one or more layers of the skin. The dermis is often-times super-sensitive to frostbite because of its highly vascular nature. This inner layer of skin must be protected, or you run the risk of losing some digits.

I have seen many hypothermic people in the woods, and the symptoms are frequently similar — dull, non-reactive in general, stumbling around, slowed response times — all are indicators that hypothermia is at work. Be prepared to warm the victim by giving him or her warm, caffeine-free drinks. Get them by a fire and remove any sweaty clothing still touching the skin.

Signaling — If it's rescue you are looking for, you had better be adept at signaling. Never trust your life to luck. The chances that a rescuer will just come waltzing right up to you in the backwoods are never good enough in my book. You should have the same attitude.

Preparing and being ready to use a variety of both audio and visual signals will greatly increase your chances of survival and rescue.

In your survival kit, stow a "pencil" flare and a dozen or so flares. Shove a signal mirror in there as well. Under perfect atmospheric conditions, the reflection off a signal mirror can be seen for about 40 miles.

Another good idea is a survival blanket, metallic silver on one side, blaze or international orange on the other.

Learn how to build a smoke signal from a triangular-shaped pod with spruce, fir or pine boughs woven around it. When correctly built, this type of signal can produce thick smoke for several minutes.

If you believe someone is in the area and you have some extra ammunition, fire three shots in succession.

Bring a sturdy, plastic whistle with you. A metal one in the winter will tear your lips off if you're not careful.

Self-confidence plays an immense role in cold weather survival. One acquires self-confidence through the interaction of knowledge and experience.

Shortcomings in winter wilderness survival skills must be minimized. Though you will probably never become an expert at all tasks associated with this topic, it is wise to strive for that goal.

Mountaineering, cross country skiing, fire building, signaling, shelter construction, emergency medical skills, hunting, fishing, trapping, water acquisition, land navigation, game skinning, hide tanning, plant identification, and meteorology are just the tip of the iceberg, so to speak.

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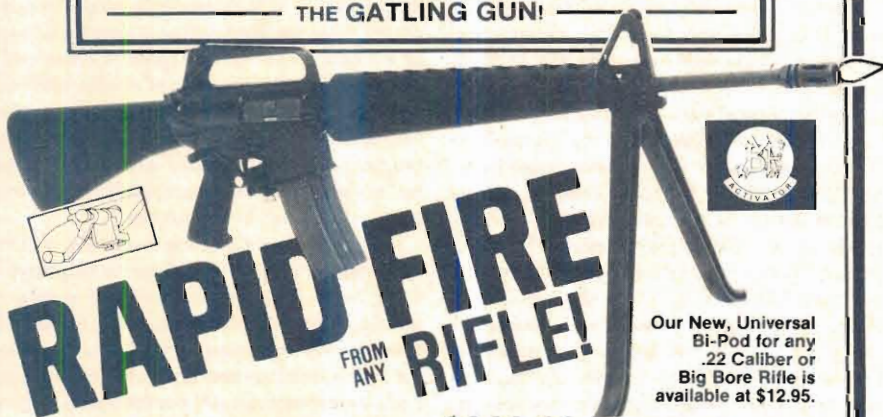
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The time for the destruction of our solar system is set to a cosmic alarm clock, and that clock's running down.

by Allen Deever

MAN, as long as he is confined to this planet, is a dying race. All life, as we know it, is destined to end. Armageddon will not be a violent culmination of *man versus man*, but the natural order of an event predestined 4.6 billion years ago, at which time our solar system was formed.

Our Earth is spiraling into a peril from which technology cannot bring it out. The sun, which our planet orbits once a year, is a star named *Sol*, located approximately two-thirds of the way towards the outer fringes of the Milky Way Galaxy. As far as stars go, *Sol* is a medium large one (87 percent of all known stars being significantly smaller than our sun).

Sol came into being 4.6 eons ago (an eon is a billion years) and our planet and solar system were birthed with it. *Sol* is the source of all terrestrial life. It is the energy source that drives our atmosphere's weather machine; it is the source of Earth heat; and through photosynthesis — our oxygen and food. Like all things born, it is destined to grow old and die. In terms of life expectancy, our sun is already middle-aged.

The sun began radiating energy at its birth, nuclear energy formed by the process of fusion in its hellishly hot (15,000,000 degrees centigrade) core. When temperatures reach such extremes, certain atoms are agitated to the point that they ram one another with such force they are atomically altered in the process, creating new elements and destroying old ones.

The fuel that drives this star fusion is *hydrogen*, but as its hydrogen atoms smash into one another, a heavier element called *helium* is formed; though in amounts smaller — 71 percent — than the original weight of the hydrogen that formed it (the difference in weight being lost as irretrievable energy).

Like any heat producing machine, a star requires a certain amount of fuel to run it... of which there is a finite amount. Every second our sun burns, it must consume 1,193,600,000,000 pounds of hydrogen atoms to radiate at its present output. Any more or less would spell utter disaster.

After 4.6 eons of continuous burning, the galactic gas gage now reads 75 percent hydrogen (from an original 80 percent)... a figure that sounds far better than it actually is. This does not mean that a mere 6.35 percent of the sun's useful life is over. Alas, nuclear physics doesn't work out like that. It's what is taking place in the core that counts. As more and

more helium is created by the fusion of hydrogen atoms, the core becomes denser and denser, and correspondingly better. Soon it becomes hot enough to ram the slightly heavier atoms of helium together, which in turn creates even denser elements and hotter temperatures. This increased heat will one day cause the sun to expand (as hot air does to a balloon), until it has increased its volume by a million percent. When the outer layer of a sun is pushed away from the inferno of its core, it cools down to a crimson hue entering what is known in star terms as the "red giant" stage. A well-known example is the star *Betelgeuse*. Fireworks are soon to follow...

Logic might tell one: the larger the star, the more the available fuel, therefore the longer the life of the sun. This, however, isn't true. It works just the opposite. An old maxim states, "The hottest flames burn out most fast," and the greater the volume of the star — the quicker its fuel consumption. The active life of a star is known as its "main sequence." The largest known stars in the universe continue on main sequence no more than one million years. *Sirius*, our closest star system neighbor, is two-and-a-half times as massive as *Sol*, giving it a main sequence lifetime of a half billion years. At that size, *Sol* would have expired 4.1 billion years ago.

The diameter of our sun has been calculated to be roughly 850,000 miles. At the peak of its red giant stage it will have bulged outwards for a possible 212,500,000 miles, approximately 250 times its present dimensions. This expansion will most certainly engulf the closer planets of *Mercury* and *Venus*, and at its very least come close enough to incinerate Earth. Even if man has increased his technology to the point that he can burrow underground, beneath cooler, protective layers of rock, constructing massive underground colonies in heat-shielding material, his work will be of no avail.

When a star reaches the red giant stage, it is burning its fuel at an ever alarming rate, in a desperate bid to maintain its new size. In large stars, like our sun, new elements created by the bashing together of atoms continues until iron comprises the majority of the core, at which point fusion is no longer possible. When it can no longer create the energy needed to maintain its gigantic size, the bloated sun collapses in on itself, triggering a chain reaction and creating a stellar explosion so destructive that 90 percent of its mass can be blasted into space. This event is known as a *super-nova*. It has been witnessed that during the few days a *super-nova* reaches its peak, it can outshine an entire galaxy. No neigh-

boring planet could survive such a blast.

When will all this take place? In view of the sun's size, it can theoretically remain on main sequence for 12 eons. Since it has been shining 4.6 billion years already, we have been given, at the most, some 7.4 eons left. I say "at the most" because our sun will be steadily increasing in temperature throughout the eons allotted it, to a point that life on Earth may become an impossibility one billion years *before* it reaches the red giant stage. This gives us about the same time remaining as has already passed.

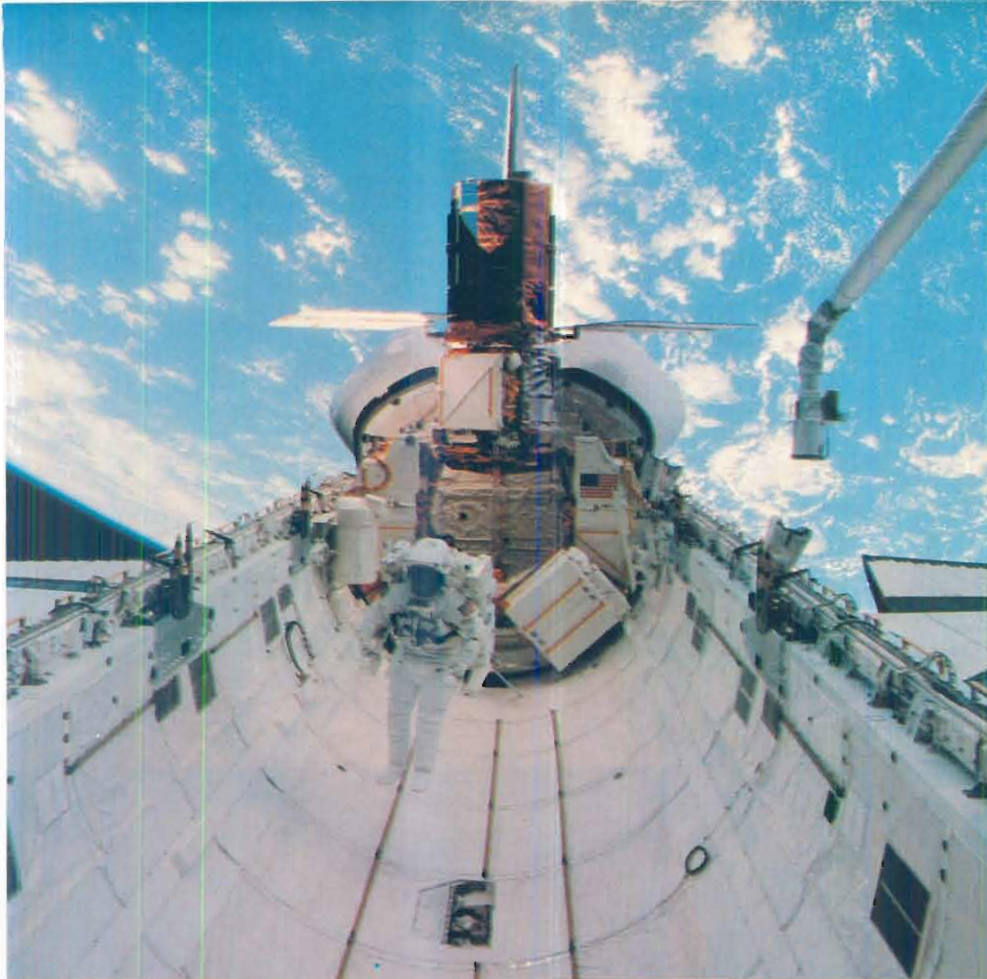
True, this "imminent" peril hardly threatens us or our grandchildren, but it could directly concern the survival of the human species as a race, as well as every living species of Earth plant and animal. It is imperative, therefore, that man's exploration of the Universe continue should Earth life hope to survive; and in order to accomplish that end indefinitely, man *must* move not only to the outer planets, but to the further stars beyond.

There's a traveller's saying that aptly applies to the nature of humans: "If man was meant to remain in one place, he'd have been born with roots." *Homo sapiens* was created a wandering creature. For the first two million years of existence our species roamed ceaselessly across the Earth in search of shelter and sustenance. Man is a mover, still. Perhaps this wanderlust is a survival mechanism pre-programmed by our Creator, a restlessness that can never be quenched; perhaps *Homo sapiens* must always move to survive.

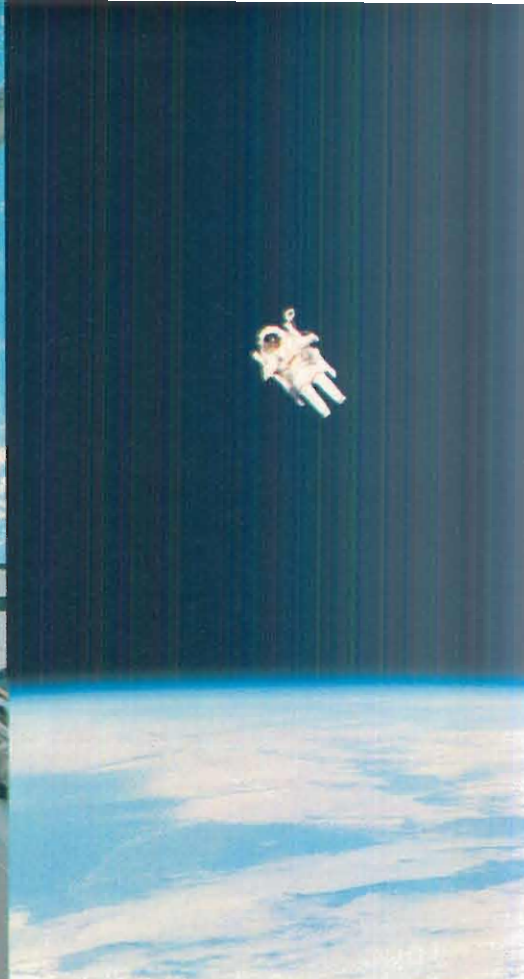
If our sun is dying, aren't all the others? And wouldn't the entire Universe be plunged into lifeless darkness at once? The answer is no. New stars are constantly being formed all the time. Genesis is an ongoing creation. Just turn your head towards the sky some evening and take a close look at the constellation *Orion*. From *Orion's* "belt" dangles his "sword," and on this sword exists the phenomenon of *Orion's Nebulae*. Through a high-resolution telescope it appears as a bright cloud of gas in a greenish haze. To view this spectacle is to observe what only God and astronomers have seen: the birth of new suns, new star systems, new worlds in the making. And *Orion* is only one of many known nebulae, some in the almost finished state.

Only five years ago "protoplanetary" material around a fourth magnitude star (*Beta Pictoris*) was detected separating in a disc-like pattern from the star's surface. Two years later that disc had cooled down and evolved in composition to pebble-like objects that scientists believe could be the mitosis of new-forming planets. By the time our sun burns out, mak-

Survival In Space



The view of earth as the majority of mankind will soon see it. Photo courtesy Rockwell International



Space is merely a continuation of our backyard. It's only natural that we stretch our legs in it. Photo courtesy Rockwell International

ing our solar system uninhabitable, nature in all its foresight will have prepared countless other worlds for us. The odds are on our side. It's estimated that our sun is one of a trillion stars in our galaxy; and our galaxy is believed to be but one in 100 billion in the Universe.

Konstantin Tsiolkovsky wrote in *Notebooks*, "The Earth is the cradle of mankind, but one cannot remain in the cradle forever." If we must leave to survive, where do we go? And what are the realities of space colonization in light of present-day technology and available known resources in space? In short, is escape a grand dream of science fiction, or is this an imminent reality? Answer: The future is not so far off as most think, and the twenty-first century is but a decade away. . .

In a bold report issued by the presidentially appointed National Commission on Space, the goals of the United States' next 50 years in space were released in 1988. Below is an excerpt from that report:

"Our vision: The Solar System as the Home of Humanity. . . Five centuries after Columbus opened access to 'The New World' [1992], we can initiate the settlement of worlds beyond our planet of birth . . . space technology has freed humankind to move outward from Earth as a species destined to expand to other worlds."

In 1974, American physicist, Gerald K. O'Neill, published a lengthy report proving that it was "technically feasible" to construct space cities capable of housing 10,000 people,

and do it now. The country's greatest minds agree.

Acting on these studies and goals, the wheels of space progress are already in motion and the direction of their turning is taking us away from our sun; for towards it we move closer to a fatal encounter, while away from it is hope and infinite room to expand.

Technological Hurdles — The four biggest technological hurdles to overcome in order to achieve these goals are fuel, food, oxygen and water; all of which are readily available in space. In 1992, a great experiment in universal self-sufficiency will begin in Arizona. This project is named "Biosphere II," and will test a fully enclosed ecological system housing self-supporting and self-replicating flora and fauna. Inside it eight humans will be sealed (four male and four female), entirely cut off from the outside world for two years. If they can survive, so also can man off this planet.

The results of the Biosphere II experiment will come just in time for NASA's next goal: In January of 1984, President Ronald Reagan whole-heartedly approved funding for NASA's plans of a permanently inhabited space station, requesting that it be operational exactly ten years later. When it is, 1994 will mark the beginning of man's permanent occupancy of space, and the end of his "visitor only" status.

Shortly after the establishment of a space station in low-Earth orbit, unmanned probes

will be sent to the Moon to explore the shadowed craters near the lunar poles, where it is hoped that ices containing volatile carbon, hydrogen and nitrogen compounds may be found. If such deposits are indeed discovered, all the propellant requirements for rockets operating between the lunar surface and low-Earth orbit expeditions will be met. The launch date set for these robotic resource assessment probes is the late 1990s, while establishment of the first lunar outpost should take place before 2008, with permanently-manned lunar bases in operation before 2018.

The success of our outreach to space, like survival at home, depends on self-sufficiency. The ties that bind must be severed. The further we extend ourselves from Earth, the more necessary this will become to avoid the danger of that "life line" being stretched too thin. Like symbiotic parasites passing through the great "void," we must move through the cosmos appropriating resources and advancing technology along the way.

"Give us this day our daily bread" has profound significance in space. The Moon can supply our basic needs. Samples of the lunar crust, gathered by Apollo astronauts, have revealed that oxygen is by far the most abundant element found in these rocks (in conjunction with silicon), being fully 40 percent by weight. Breathable O-2 can be released from the silicon by one of three methods: 1) Fluorine wet chemistry; 2) Reduction by hydrogen of ilmenite; and 3) By electrolysis. Oxygen is also

Survival In Space



It was once thought that water was the rarest substance in the Universe... until Voyager 2 flew by the moons of Jupiter. All the ingredients necessary to life have already been discovered in space. All that remains is for man to claim it. NASA photo

two-thirds of that most important compound called water, and oxygen in the liquid state is a major component of rocket fuel. In fact, the energy released when hydrogen and oxygen combine is what boosted the first men to the Moon, and the by-product of this explosive reaction was the water they drank.

The major by-product of oxygen extraction from lunar rocks is pure silicon — the second most abundant element on the Moon — comprising approximately 20 percent of lunar soil by weight. Silicon is the “power element,” and it is from this “waste” that an unlimited amount of solar panels can be made to supply the energy needed to run the oxygen factories. Leftover energy can be microwaved to Earth, adding extra electrical resources to what is already a 400 billion dollar business on Earth.

Other important elements found in lunar soils are the metals aluminum (14 percent), iron (four percent), as well as more than trace amounts of titanium, manganese, magnesium and chromium. The iron found on the Moon is especially useful and easy to extract, the majority of it being in the form of ferrous dust created by the impacts of untold iron meteorites throughout the ages. In this state it could simply be sucked up by magnetic “vacuum sweepers” to be later sintered into high precision products.

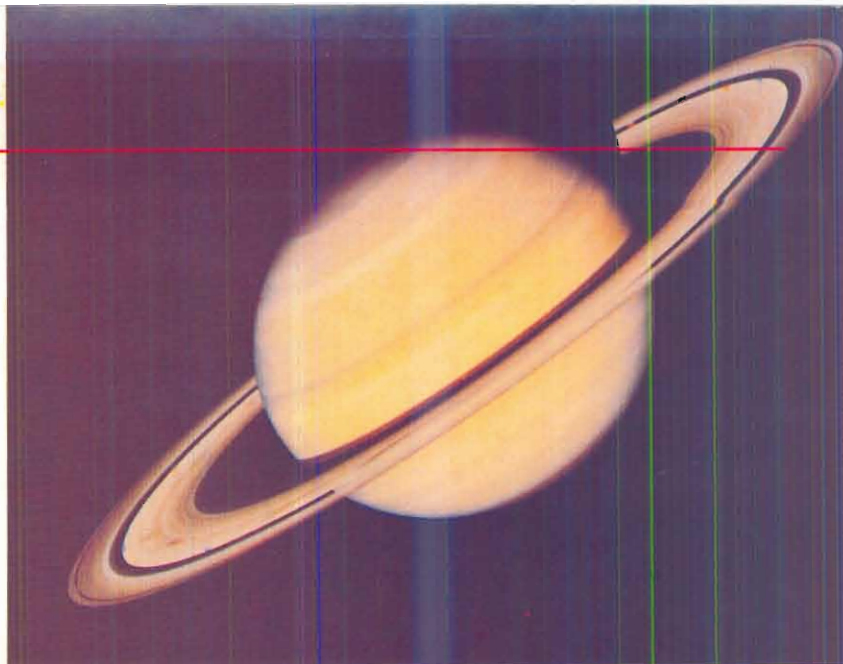
It is metallic space resources that will spur the 21st Century “Gold Rush,” as rare Earth metals are found in abundance elsewhere. Imagine how much wealthier these new worlds will be that have remained unexploited since the beginning of time. No doubt the wealthiest human beings will be those off the planet, not on it. The future economic powers will most certainly be extra-terrestrial.

In more abundance than metals are vast amounts of natural volcanic glass that will prove highly useful as building components

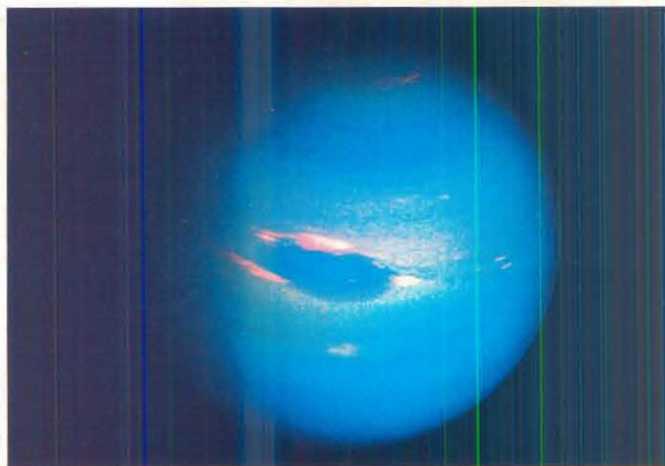
in composite structures.

The Moon will serve as “The Great Space Experiment.” Nuclear electric generators will be fired up there before being sent to Mars and beyond. Moveable space settlements will be tried and tested in lunar orbit. Everything learned about long-term life support and emergency medical service on the Moon will be vital to further ventures into space.

Little will be wasted in space. Even the industrial slag from Moon mining will serve as insulation for space stations, land bases and space vehicles where solar radiation is a life-threatening hazard. A danger zone extends 10 billion miles from the center of our solar system that is affected by the high speed bombardment of electrically-charged subatomic particles constantly being machine-gunned out from the sun at 300 miles per second. This lethal phenomenon is known as the “solar wind.” Solar winds are especially blasting during solar flares and can fry an astronaut in his spaceship at such times. Since weight is no critical factor in “weightlessness,” settlements and ships will fill special “solar flare cellars” with material carted off from the slag heaps to insulate them from these radioactive



Pack your flight bags and dust off your spacesuit. *Homo sapiens* are on the move, and this is the direction we're moving in. The first travelers to reach Saturn will probably have been born in space. NASA photo



Scientists have only just begun to reach out into deep space.

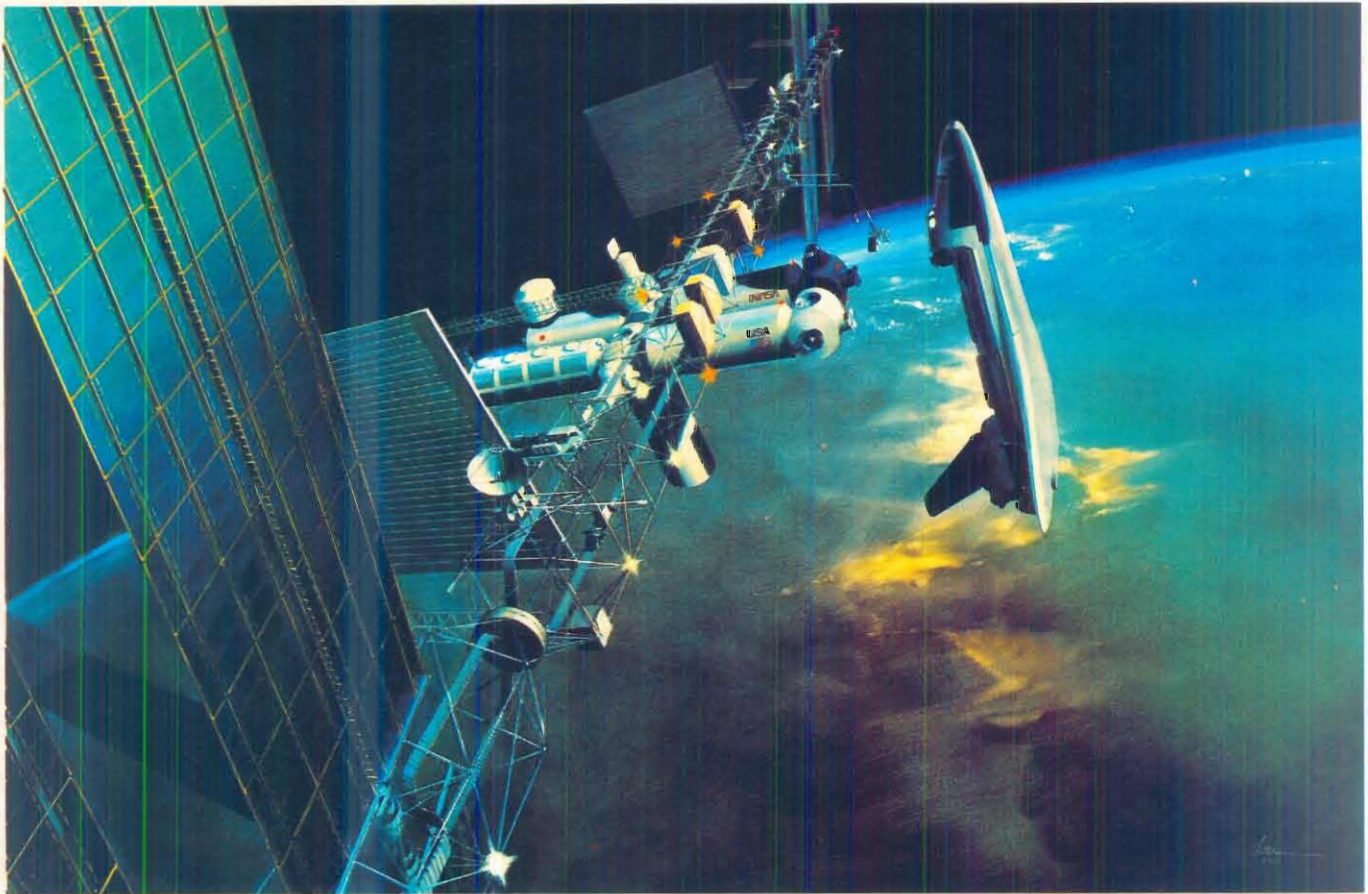
storms.

While the Moon is being “settled,” cycling spaceships will begin development for future round-trip voyages to Mars, on the drawing board as early as 2005. The “red planet” is the next prize on the solar system tour and logical next step. Mars is relatively habitable as is. It has a thin atmosphere (approximately one-third to two-fifths of Earth's) where theoretically, oxygen, hydrogen, nitrogen and methane could be extracted from the air, to be converted into water, fuel and fertilizer.

Geologic surface features point to the existence of permafrost in high northern latitudes, a mile below the surface, and Mars has polar caps of frozen carbon dioxide (dry ice) and water ice that expand and retract according to season.

Mars' largest moon, Phobos, was discovered to be unusually dark, leading astronomers to believe it may be an asteroid captured in Mars' orbit. If this is so, the dark coloration is suggestive of a rich carbon content, making it an ideal refueling depot before venturing onto Mars. Phobos' distance of 6,000 miles from Mars makes it a closer journey than New York to Sydney.

Although the slower rotation of Mars cre-



When NASA's space Station becomes fully operational in the mid-1990s, it will herald a new age of man's permanent habitation of space. NASA photo

ates about 30 times more daylight than the Moon, its greater distance also spares it from the worst of solar winds. Even Martian temperatures are more hospitable, the record low having been recorded at minus 184 degrees Fahrenheit in winter at the poles, while its summer high has been recorded at a comfortable plus 68 degrees Fahrenheit in a temperature "oasis" located near the equator. The settlement of Mars is comparable to settling Antarctica.

Mars, although our nearest neighbor away from the sun, is not exactly next door. When we start reaching out to Mars, we start facing the enormous obstacles of distance and time. Mars is approximately 137.6 times further away than the Moon, requiring a life-support system capable of functioning perfectly for a minimum of 640 days, even with direct-return flights. To reach Mars requires tremendously expensive resources, which is why we will use "cycling ships." These space vehicles are simply large transport vessels that have been placed in an orbit that carries them on a four-year elliptical voyage between Earth and Mars orbit. Except during transport, these vehicles will be unmanned, and require almost no energy in terms of fuel since there will be no acceleration or deceleration periods.

Direct one-way flights from Earth-Moon vicinity will take about six months; and once in the vicinity of Mars, transfer vehicles will pick up travelers and set them down on one of the Mars bases, presumably located on or around either of the two Martian moons

(Phobos and Deimos).

When can we expect such a voyage? The establishment of the first Martian outpost is predicted to be in the third decade of next century.

Asteroid Belt and Beyond — As grand as the Mars project will be, these settlements are just waystations on the road leading to the off-ramp of our solar system. The colonization of the red planet is not the goal, but a step towards that ultimate goal: The dispersement of intelligent life to every corner of the Universe. So where to after Mars? Next stop: the Asteroid Belt.

The Asteroid Belt lies between Mars and Jupiter, and is composed of 3,200 satellites of sufficient size to be catalogued (though as many as 100,000 islands in space with diameters of more than a half mile may exist). The meteorites that enter our atmosphere are the crumbling debris of small asteroids that have collided in space, and what bits we've been able to recover thus far leads astrogeologists to believe that asteroids represent a treasure trove of resources, including many volatile compounds the Moon is in short supply of. The Asteroid Belt also offers the chance of unlimited growth for creatures plagued with a population explosion.

Issac Asimov writes in his book *The Earth and the Cosmos*, "Asteroids represent the great mines of humanity. . . The Asteroid Belt offers a volume of space a billion times as great as that which lunar orbit offers. . . The time may

come when the vast majority of the human species will be living in the Asteroid Belt."

One of the great advantages of the small worlds of asteroids is their size. On large heavenly bodies, barely more than the surface layer is exploitable, whereas nearly all of an asteroid can be used.

The Asteroid Belt forms the outer boundary of the inner solar system. Beyond that is a vast tract of space that remains virtually empty until reaching Jupiter. When Voyager 1 passed by Jupiter and its moons, some incredible discoveries were made there.

It was once thought that the rarest ingredient in the universe was water, that somehow our insignificant blue speck in the isolated western spiral arm of the Milky Way Galaxy just happened to have a monopoly on it all. Astronomers now know that this just isn't so. Of three of Jupiter's largest moons, *Europa* is close enough to that big hot planet to be partially covered in liquid water, and *Ganymede* and *Callisto* are coated in deep layers of water ice. Where there is water, there can be life, and from water can be produced both fuel and oxygen.

After Jupiter comes distant *Saturn* lying 12 times further than Earth to Mars (approximately a twenty month voyage from *Europa*), with its large moon of *Titan* which has been found to have an atmosphere of nitrogen and methane gas, one-and-a-half times as dense as Earth's. And traveling on from there we encounter the strange "undersea" world of

(Continued on page 77)

Shooting Fundamentals:

Long-Range

It's possible with training to shoot effectively out to 500 yards with handguns. . .

Handgunning

The long-range targets appear quite small to the handgun shooter but careful attention to the fundamentals of marksmanship insures consistent hits.



Shooters used a variety of stances in long-range shooting. The supported barricade is probably the best tactical choice.

By Daniel C. Friend

A large part of using any piece of equipment effectively is knowing its capabilities and limitations. Firearms are no exception.

We all know that handguns are close-

in defense weapons. But what exactly are their range limitations? The qualification course used by most law enforcement agencies has a maximum range of 25 yards. The military teaches that 50 meters is the maximum effec-

tive range of the sidearm.

What is the maximum effective range of your handgun and to what range do you feel you are proficient with it?

Before you answer, let's consider the two major factors that impact on this

issue. First and foremost is your skill as a marksman. How well have you mastered the fundamentals of stance, grip, sight alignment, trigger control and breath control?

The second factor is the caliber and the particular load you are using. Trajectory, or the arc the bullet follows in its path to the target is generally considered to be a flat line at common handgun ranges. At extended ranges the differences in flight characteristics or trajectories of different calibers and bullets begins to play a significant role in accuracy. The high velocity and relatively light bullet weight of the standard .357 Magnum load gives this round a much flatter trajectory than the heavy and slow moving bullet of the .45 ACP. While barrel length, type of sights, and type of action, i.e., revolver or semi-automatic, do play a role, it is less decisive than generally believed.

Nestled in the rolling hills on California's Central Coast just a few miles north of San Luis Obispo lies the California Specialized Training Insti-



For those with a steady hand, off-hand shooting from the Weaver stance provides all the support needed for consistent long-range hits.

tute. Among other programs, CSTI offers a week-long Officer Safety and Field Tactics Course to veteran police officers from departments throughout California. One of the high points of the 40-hour program is the long-distance shooting course, which gives students the opportunity to learn through direct experience that they can successfully engage and hit targets at ranges commonly thought to be beyond the capability of standard handguns.

Exactly what distances are we talking about when we say long-range handgun shooting? All our shooting was conducted at ranges between 150 and 500 yards. The weapons used were the students' issue handguns, primarily Sig-Sauer P226s and 220s, Beretta 92s, Glock 17s, Colt 45 automatics and a few revolvers, primarily Smith and Wesson K and L frames.

Targets are double thickness armor plate hatches measuring 22 by 44 inches, slightly larger than the standard police target silhouette. With a little practice and coaching the students quickly begin dinging the targets between 150 and 300 yards with direct fire. A few of the more adventurous shooters who are willing to experiment with an offset aiming point discover that they can even hit the 500-yard target (which appears to be about the size of the head of a pin).

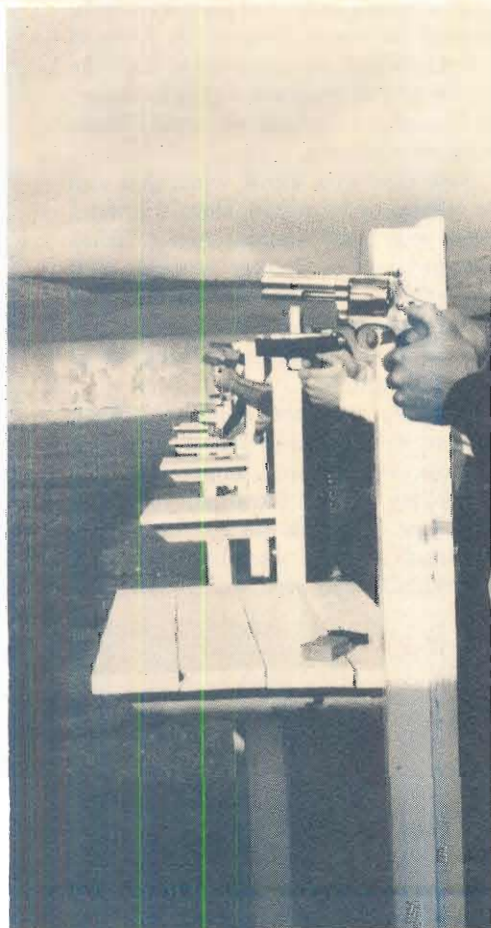
Sure this sounds like fun, but what good is it? First of all, you've increased your effective handgun range capability from 25 to 300 yards. That alone

has significant survival as well as tactical implications. Second, by practicing using indirect aiming points for extremely long ranges out to 500 yards, you've learned the trajectory of your weapon and ammunition. While a few of the better marksmen have mastered the fundamentals and are able to score fairly consistent hits on the 500-yard target, many others are able to lay in what amounts to suppressive fire at that range.

If long-range handgunning sounds like something you'd like to try, here are a few pointers: Don't rush out to buy an expensive silhouette target pistol. You can spend a couple of thousand dollars on a customized weapon modified to your personal specifications and be extremely disappointed with its performance if you haven't mastered the fundamentals of marksmanship. G.I.-issue .45 autos and 2-inch .38 Special revolvers possess all the accuracy and power you'll need to start scoring consistent long-range hits. The relatively light, high velocity loads usually fly a flatter trajectory, but the authoritative "thunk" of the .45 hardball on the 500-yard target testifies to this round's long-range potential.

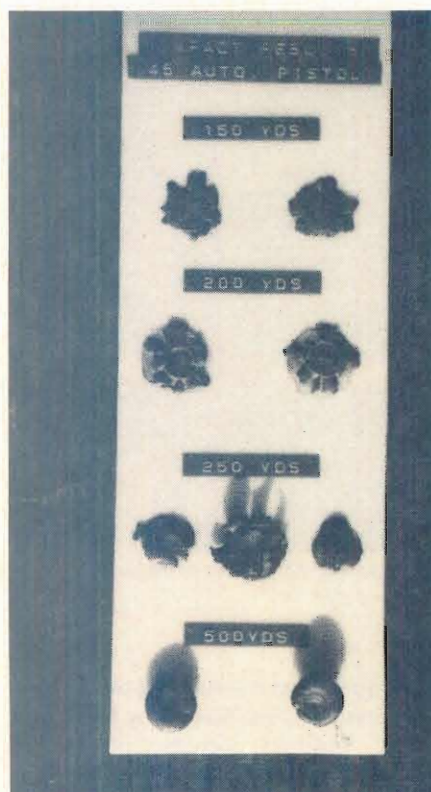
Let's briefly review the fundamentals that are so critical to long-range accuracy:

STANCE: Many shooters use a barricade supported kneeling position for stability, but others are quite successful with standing, off-hand shooting from the Weaver stance.



Standard, off-the-shelf handguns provide all the accuracy necessary to develop and maintain long-distance shooting skills.

Long-Range Handgunning



The power retained by handgun bullets at long range is clearly illustrated by these examples, recovered at the ranges shown.

GRIP: As in all handgun shooting, proper fit of the weapon to your hand and the way you grip the weapon are essential to accuracy. Remember that the barrel of the weapon is an extension of your arm, and should be held in line with your arm so that the forces of recoil are transmitted directly down your arm and not channeled off through a loose or bent wrist. Proper follow-through, while often overlooked in less demanding forms of shooting, is essential for successful long-range shots.

SIGHT ALIGNMENT: A misalignment of the sights by only one-thousandth of an inch at the muzzle will result in an error of three inches at 50 yards and of nearly three feet at 500 yards. Considering how small the targets appear at these ranges it is almost an act of faith to maintain your focus on the front sight, but it is absolutely critical that you do.

For distances out to 150 yards sights can be aligned in the normal way — top of front sight level with top of rear sight and equal strips of daylight bracketing each side of the front sight blade. In order to maximize your hit probability at 150 yards start by plac-

ing the top of the front sight level with the top of the target. At this distance the front sight will be wider than the target, so your sight picture requires considerable concentration and your full attention.

As ranges increase toward 300 yards simply elevate the muzzle of the weapon so that the top of the front sight is higher than the top of the rear sight. At 300 yards the base of the front sight blade should be level with the top of the rear sight, still centered with equal daylight on each side. This method will provide a starting point for you to work from. The trajectory of your particular ammunition may require you to make adjustments to this basic formula.

At 500 yards the method is different because the average front sight is simply not high enough to obtain a sight picture with the muzzle elevated to compensate for the deteriorating trajectory of the bullet. Some cartridges, notably the standard .45 hard-ball, have a trajectory drop of approximately 35 feet at 500 yards. Naturally, to be successful at this range you will have to find an alternate aiming point the appropriate distance above, or beyond your target.

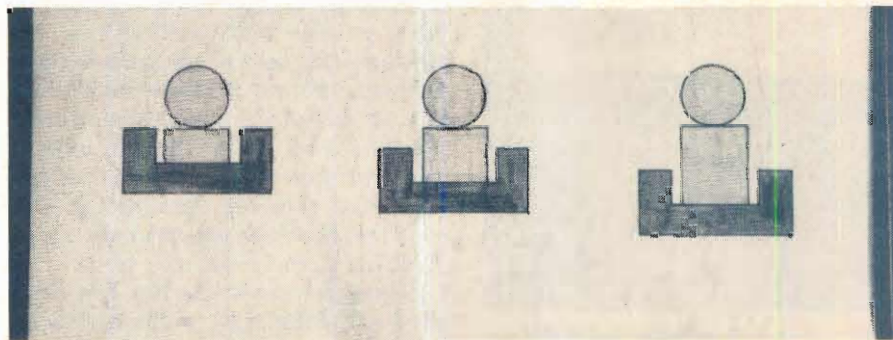
TRIGGER CONTROL: It is not necessary to shoot exclusively single action to be accurate at extended ranges. Many shooters are quite successful at long-range using the double action feature of their revolver or semi-auto pistol. What IS critical is a smooth and steady squeeze. You must avoid staging, jerking or any other trigger movement which is not an evenly paced continuous motion. As with grip, follow-through is important with trigger control. The bullet has a long, unguided flight and the way it is launched determines where it will impact.

BREATH CONTROL: We've all experienced the figure-eight weave as we attempt to hold a handgun steady. At close range you may be lucky and squeeze off your shot just as the sights pass over the target. But for long-range precision you have no such luxury. You must be **ABSOLUTELY STEADY**. Taking a breath, then letting it halfway out is an old formula, and it is still the one to follow to promote a steady hold.

So far, so good. We're hitting the target, but what about the remaining kinetic energy of the bullet at these long ranges? Does the bullet retain any stopping power once it reaches the target? It's actually frightening to consider what happens to a bullet, whether it's a fully jacketed .45 or a hollow-point .357, when it impacts armor plate at 150 yards. Inspecting the targets after a shooting session, I collected a bag full of what appeared to be lead nickles — round and flat. They are in fact .38, .357 and .45 caliber bullets that have struck the target with so much force that they have completely flattened themselves. Even at 500 yards bullets recovered at the base of the target retained enough energy to transform themselves into classic lead mushrooms.

Now that you know what you can do with your handgun, should you get rid of your rifle? Absolutely not. Rifles are designed to deliver accurate and powerful long-range fire. But it IS nice to know that you have the option available of your handgun for long-range fire in a pinch.

Whether you are a police officer, soldier, survivalist or just a Saturday plinker, realize and appreciate the capability of that handgun you pack with you. It can do its job far beyond the traditional 25 yard limit we have uncritically accepted for so long ●



Normal sight picture, left, is usually adequate for 150-yard shooting. For more distant targets the front sight must be elevated to compensate for bullet drop.

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Deep Cycle Batteries

(Continued from page 18)

OHM'S LAW

$E = IR$ I divided by R $E =$ electromotive force, (volts)

$I = E/R$ E divided by R $I =$ amperes or amps

$R = E/I$ E divided by I $R =$ resistance measured in ohms

$P = IE$ I divided by E $P =$ power measured in watts

$I = P/E$ P divided by E $I =$ amperes

$E = P/I$ P divided by I $E =$ voltage or volts

Basic math for survivalists. These simple formulas are a handy reference for any project involving electricity.

there has to be in place, a regulator system to prevent overcharging the batteries. Ideally the batteries should not get below 50 percent of their rated capacity, but that is not always possible. Single batteries should not be charged at a rate greater than 15 amps. Ideally, a taper charge should be used. This is a regulated power supply which tapers the current down as the charge level in the battery increases. Most battery manufacturers supply charge information. Using the Delco Voyager battery as an example we find that an open circuit voltage of 12.1 volts requires a charging time of 17 hours at a charge rate of 10 amps taper charge. If a 15 amp taper charge is used it will take only 10 hours to fully charge the battery.

Excessive charging causes the battery to boil, a condition which should be avoided. A battery should get warm in the charge cycle but should not exceed 110 degrees F. A boiling battery looks just like a pot of boiling water on the stove, but not quite as vigorous. Care should be taken while peering into a charging battery as acid in the eyes is dangerous. Gassing, the disassociation of oxygen and hydrogen, is always present when charging. Normal gassing causes very little loss of electrolyte over a period of many charge cycles, while boiling causes quite a bit of electrolyte loss over short periods of time. In extreme cases of boiling, the electrolyte loss is noticeable in one charging session. It becomes apparent that a charge rate of 10-15 amps is going to take forever to charge a high capacity bank. Detailed rate of charge information for various charg-

ing systems is too extensive to cover here. Understanding general charging parameters will enable you to design a system and keep an educated eye open for any abnormalities when your system is charging.

It is essential to keep tab of your batteries' condition, whether it is a single battery or a bank of them. The batteries should always be kept charged. The open circuit voltage should be measured with a very good quality voltmeter, preferably a digital meter. The open circuit voltage is the voltage with no load. Care should be taken not to measure the open circuit voltage right after charging as you will get a false impression of its output. A time lapse of at least 24 hours after charging or discharging is required for accuracy; this according to Delco literature.

It is my opinion that the "self contained" hydrometer type of battery is not the best choice for use in a battery bank. Many of these batteries are "maintenance free" and you have no way to check the validity of the built-in device against a good tube and float type hydrometer.

A specific gravity reading of 1.275 should be present in a heavily worked deep cycle battery, or about 1.267 in windplant systems batteries. Auto types will run about 1.260. There are several conditions, which if present, will give you an erroneous reading. The first condition is the temperature of the electrolyte. The normal reference temperature is 77 degrees F., but most hydrometers I have seen on the market are temperature compensated. If the electrolyte level is low, a higher

specific gravity reading will be indicated due to the higher acid-to-water ratio, because in the charging process, the water has been disassociated. If water is replaced preceding the reading, a false indication will be present because the acid and water have not had ample opportunity to thoroughly mix. Like open circuit readings, hydrometer readings should not be taken soon after a charging. The battery needs about eight hours to stabilize.

You will contribute greatly to the demise of good battery, using water other than distilled, for bringing the electrolyte level up to par. The mineral content and other impurities contaminate the plates. In an emergency tap water will work, but, generally speaking, the cleaner the water the better. Battery "pepper uppers" do not work and should be avoided. The only thing you should put into the battery's cells is distilled water! Sulfuric acid and water mix should be added only if the battery has been tipped over and the level is very low. Caution has to be exercised here as the acid is hazardous to the skin, eyes and clothes. The acid is always added to the water to prevent spattering of the acid. If premixed electrolyte is not available you have a very tedious job of mixing water and acid, taking a specific gravity reading, and making adjustments to obtain the correct reading. Remember... too much acid for prolonged times will eat the plates away and too little will cause sulfation. Either way, in time, you will have an unreliable battery.

Believe it or not, current can flow across the top of a battery from post to post through the greasy dirt which accumulates on the tops of batteries. The filth actually conducts electricity and after a time could contribute to the battery's discharge. Corrosion causes poor connections, so periodically the posts should be cleaned with a wire brush, and a solution of baking soda and water. An application of grease helps seal the connections from air and acid. Care must be taken not to get the water and baking soda solution into the cell's electrolyte via the vent holes because a chemical reaction will change the specific gravity. Batteries should be kept dry and clean and definitely off concrete floors. Cold damp concrete floors tend to speed up the sulfation process.

Lead/acid batteries output most effi-

TEMP Vs. OUTPUT

Degrees F.	% of rated output
77	100
65	95
60	92
55	88
50	85
40	78
35	75
30	75
25	68
20	62
15	58
10	55

Cold weather impairs battery performance. You need extra capacity for cold weather if batteries are in an unheated enclosure.

ciently at a temperature of 77 degrees F. At 32 degrees the consistency, or viscosity, of the electrolyte doubles, diminishing the ability of the acid to work through the plates, cutting down the effective capacity. Charging a battery in living quarters is NOT recommended. The storage area should be well ventilated during charging because when or if the storage area's hydrogen content gets above 3-4 percent by volume, an explosion is possible. Remember... Hydrogen is ALWAYS a bi-product of charging.

In cold climates, it is a bit of a dilemma as to how to construct a suitable storage area with an ambient temperature in the 77 degree range, yet provide adequate ventilation. Remember the "cold factor" when determining the capacity of your bank. See the chart for diminished performance in cold temperatures. At cold temperatures the battery still has its original capacity but can't deliver. Another word of caution here. A discharged battery will freeze and possibly crack at temperatures under 32 degrees F. Conversely, a fully charged battery will survive down to around -40 degrees F.

I hope I have shed some light upon the composition, theory of operation, selection, and maintenance of a lead/acid battery. Should there be any readers who have a wind system or photovoltaic system using batteries for storage, I would like to hear from you. I would also enjoy hearing from anyone with a backup system using deep cycle batteries for computer gear, communications, etc. Please address your correspondence to Dave Rude or Michael Rigby at Graymoon Research, P.O. Box 108, Oxford, WI 53952. ●

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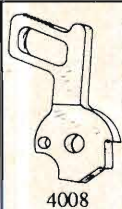
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A Warning:

Holocaust Survivor Denounces Anti-Gun- Ownership Movement

'Gun control is a prelude to totalitarian rule' . .

© 1990 By Aaron Zelman

Unlike many interviews with Holocaust survivors, this one conducted by Aaron Zelman, founder, Jews for the Preservation of Firearms Ownership (2872 S. Wentworth Ave., Milwaukee, WI 53207; (414) 769-0760; membership \$20) with Theodore Haas, a JPFO member and a former prisoner of the infamous Dachau concentration camp, is a clear warning to all freedom-loving peoples to keep our guard up against arrogant politicians who are hell bent to create governments that control our lives. In pre-Nazi Germany, the good, law-abiding citizens dozed while government passed laws (all purported to be for the public good) that paved the way for tyranny to flourish. Haas, who survived years of elitist leftist Nazi ideology, is speaking out to Americans who are now dozing while our government, at the strong urging of leftists in the media and others in society they influence, passes laws (again supposedly for the public good) to ban and severely restrict firearms ownership. Theodore Haas believes gun control is a prelude to totalitarian rule — The editors.



Q. How did you end up at Dachau?
How old were you?

A. November 9th, 1938 was Kristallnacht — The Night of Broken Glass — The night synagogues were ransacked and burned, Jewish owned shops destroyed; I guess you could call it the night the fires of hell engulfed the soul of humanity.

I was arrested November 10th, "for my own personal security." I was 21 years old. My parents were arrested and ultimately died in a concentration camp in France. I was released from Dachau in 1941, under the condition that I leave Germany immediately. This was common procedure before the "Final Solution."

Q. What did you think when you were sent to Dachau? What did you know about Dachau beforehand?

A. My first thoughts were those of many others: "The world has gone mad."

I knew that the life expectancy at Dachau was relatively short. I knew beforehand that inmates were abused. The horror of Dachau was known throughout Germany. People (Germans) use to frighten their children, "If you do not behave, you will surely end up at Dachau." A famous German comedian, Weiss Ferdl, said "Regardless how many machine gun towers they have around K. Z. Dachau, if I want to get in, I shall get in." The Nazis obliged him; he died at Dachau.

Q. How did you accept the fears of Dachau?

A. Due to the constant hunger and the extreme cold weather, one becomes

too numb to even think of fear. A prisoner under these conditions becomes obsessed with survival; nothing else much matters.

Q. What were the living conditions like in Dachau?

A. We were issued one-quarter of a loaf of bread. That was to last three days. In the morning, we picked up, at the kitchen, a cup of roasted barley drink. There was no lunch. At dinnertime, sometimes we got a watery soup with bits of tripe or some salt herring and a boiled potato.

Our prison clothes were a heavy, coarsedenim. They would freeze when they got wet. We were not issued hats, gloves or underwear.

The first night, about 500 prisoners were stuffed into a room designed to hold 50 (Believe me, it is possible). Later on, we were forced to sleep on straw. As time went on, the straw dis-

(Continued on page 65)

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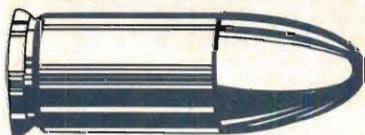
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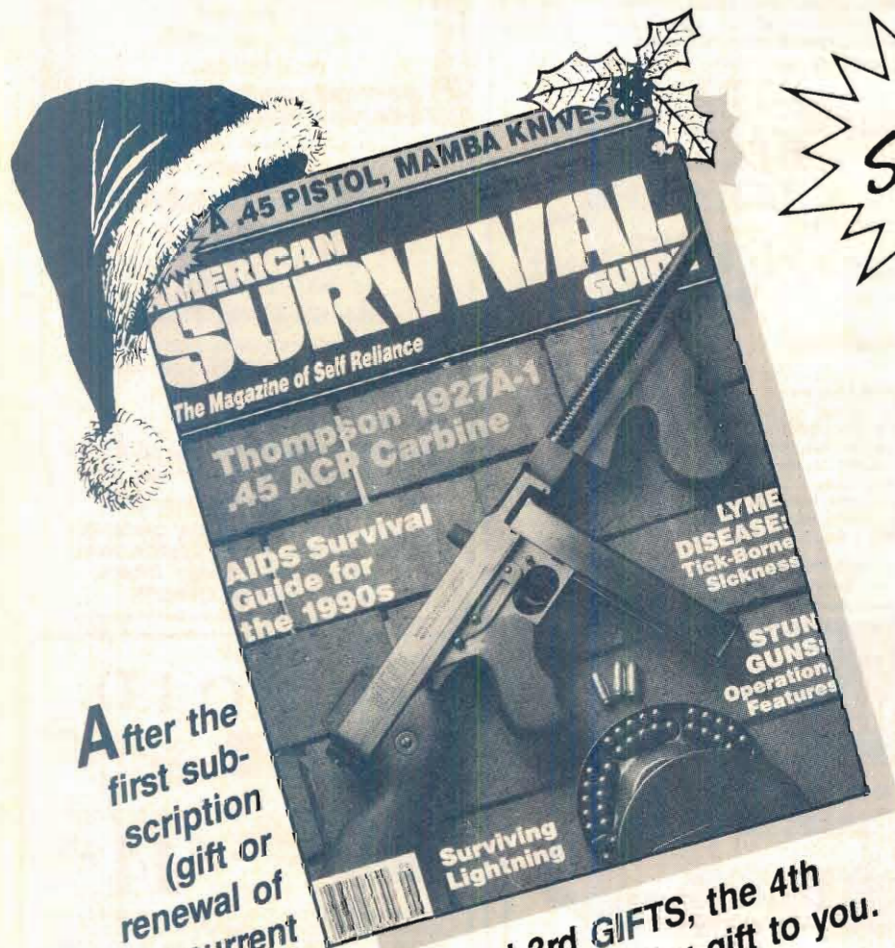
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Anti-Gun-Ownership Movement

(Continued from page 62)



integrated and we became louse infested. The guards delighted in making weak and ill-clothed prisoners march or stand at attention in rain, snow, and ice for hours. As you can imagine, death came often due to the conditions.

Q. Do you have residual fears? How do you feel about German re-unification?

A. I have nightmares constantly. I recently dreamed that a guard grabbed me. My wife's arm touched my face, and I unfortunately bit her severely.

German re-unification, in my opinion, will be the basis for another war. The Germans, regardless of what their present leadership says, will want their lost territories back, East Prussia, Silesia, and Danzig (Gdansk). My family history goes back over 700 years in Germany. I understand all too well what the politicians do not want the people to be thinking about.

Q. You mentioned you were shot and stabbed several times. Were these experiments, punishment or torture?

A. They were punishment. I very often, in a fit of temper, acted "while the brain was not in gear." The sorry results were two 9 mm bullets in my knees. Fortunately, one of the prisoners had a fingernail file and was able to dig the slugs out. In another situation, I was stabbed in the washroom of Room #1, Block 16. Twice in a struggle where I nearly lost my right thumb. A German prisoner, Hans Wissing, who

after the war became mayor of his home town, Leinsweiler, witnessed the whole situation. We stayed in touch until a few months ago, when he died.

Q. Do you remember some of the steps taken by the Nazis to de-humanize people and to make them feel hopeless? How were people robbed of their dignity?

A. If you had treated an animal in Germany the way we were treated, you would have been jailed. For example, a guard or a group of them would single out a prisoner and beat him with canes or a club. Sometimes to further terrorize a prisoner, the guards would form a circle around a prisoner and beat him unconscious. There were cases of a prisoner being told to report to the Revier ("Hospital") and being forced to drink a quart of castor oil. Believe me, this is a lousy, painful, wretched way to die. You develop extreme diarrhea, vomiting, nausea, and severe dehydration. If the Nazis wanted you to live and suffer more, they would take measures to rehydrate the victim.

Q. What was the routine like at Dachau?

A. Three times a day, we were counted. We had to carry the dead to the square. Each time, we had to stand at attention in all kinds of weather. We stood wearing next to nothing, had weak bladders, while our tormentors had sheepskin coats and felt boots. The bastards really enjoyed watching us

suffer. I remember how the guards had a good laugh when one of them "accidentally" let loose with a machine gun, killing about 30 prisoners.

Q. What did people do to try to adjust to Dachau? Keep their spirits up?

A. There were some actors, comedians, and musicians among us. Sometimes they would clandestinely perform. One of the musicians got hold of a violin and played for us. To this day, it remains a mystery how he got his hands on a violin. I still keep in touch with other prisoners. I am a member of the Dachau Prisoners Association. Each year I go back to Germany to visit.

Q. Did people ever successfully escape? Do you remember acts of bravery?

A. Nobody escaped, only in the movies does the "hero" escape. Guards received extra leave time for killing prisoners that got too close to the fence.

I do, however, think all prisoners were heroes in their own way. Especially the German prisoners, for they would not acquiesce to the Nazis. They suffered greatly too.

'If Only We Were Armed' — Q. Did the camp inmates ever bring up the topic, "If only we were armed before, we would not be here now?"

A. Many, many times. Before Adolf Hitler came to power, there was a black market in firearms, but the German people had been so conditioned to be law abiding, that they would never consider buying an unregistered gun. The German people really believed that only hoodlums own such guns. What fools we were. It truly frightens me to see how the government, media, and some police groups in America are pushing for the same mindset. In my opinion, the people of America had better start asking and demanding answers to some hard questions about firearms ownership, especially, if the government does not trust me to own firearms, why or how can the people be expected to trust the government?

There is no doubt in my mind that millions of lives could have been saved if the people were not "brainwashed" about gun ownership and had been well armed. Hitler's thugs and goons were not very brave when confronted by a gun. Gun haters always want to forget the Warsaw Ghetto uprising, which is

Anti-Gun-Ownership Movement



a perfect example of how a ragtag, half-starved group of Jews took up 10 handguns and made asses out of the Nazis.

Q. Did you have any contacts with the White Rose Society (mostly German students against Hitler)? Did anyone try to hide you from the Nazis?

A. I did not, but my local friend, Richard Scholl, had two cousins or nephews who were members. Both were executed in Munich (I believe) for standing up for decency and freedom. Not enough people knew about the White Rose Society. There were many non-Jews who were not anti-Semitic and were very much opposed to Hitler.

It was impossible to hide people from the Nazis in Germany — it is so densely populated and food was rationed. Another point that many people fail to understand is that in Germany, you had a situation where the children were reporting to their teachers if their parents listened to the BBC on the short wave radio, or what they were talking about at home. If a German was friendly to a Jew, he was warned once. If he failed to heed the warning, he would disappear and never be heard from again. This was known as "Operation Night and Fog."

Q. Do you think American society has enough stability that Jews and other minorities are safe from severe persecution?

A. No. I think there is more anti-Semitism in America (some of it caused by leftist Jewish politicians and organizations who promote gun control

schemes) than there was in Germany. This may stun some people, but not all Germans hated Jews. My best and devoted friends in Germany were Christians.

I perceive America as a very unstable society, due to the social tinkering of the Kennedy/Metzenbaum-type politicians. When I first came to this wonderful country after World War II, America was a vibrant, dynamic and promising society. There really was an American dream, attainable by those who wanted to work. Now, due to the curse of Liberalism, America is in a period of moral decline. Even worse, corrupt criminals hold high political office, and you have police officials who don't give a damn about the *Bill of Rights*. They just want to control people, not protect and serve. When you study history, you see that when a country becomes an immoral manure heap, as America is rapidly becoming, all minorities suffer, and ultimately, all the citizens.

Q. What words of warning would you like to give to young people who will soon be eligible to vote?

A. Vote only for politicians who trust the people to own all types of firearms, and who have a strong pro-Second Amendment voting record. Anti-gun-ownership politicians are very dangerous to a free society. Liberty and freedom can only be preserved by an armed citizenry. I see creeping fascism in America, just as in Germany, a drip at a time; a law here, a law there, all supposedly passed to protect the public. Soon you have total enslavement. Too many Americans have forgotten that tyranny often masquerades as doing good. This is the technique the Liberal politicians/Liberal media alliance are using to enslave America.

Q. What message do you have for ultra-Liberal organizations and individuals who want Americans disarmed?

A. Their ignorance is pitiful — their lives have been too easy. Had they experienced Dachau, they would have a better idea of how precious freedom is. These leftists should live in the tradition of America or they should leave America. These Sarah Brady types must be educated to understand that because we have an armed citizenry, that a dictatorship has not yet happened in America. These anti-gun fools are more dangerous to Liberty than street criminals or foreign spies.

Q. Some concentration camp survivors are opposed to gun ownership. What message would you like to share with them?

A. I would like to say, "You cowards; you gun haters, you don't deserve to live in America. Go live in the Soviet Union, if you love gun control so damn much." It was the stupidity of these naive fools that aided and abetted Hitler's goons and thugs. Anti-gun-ownership Holocaust survivors insult the memories of all those that needlessly perished for lack of being able to adequately defend themselves.

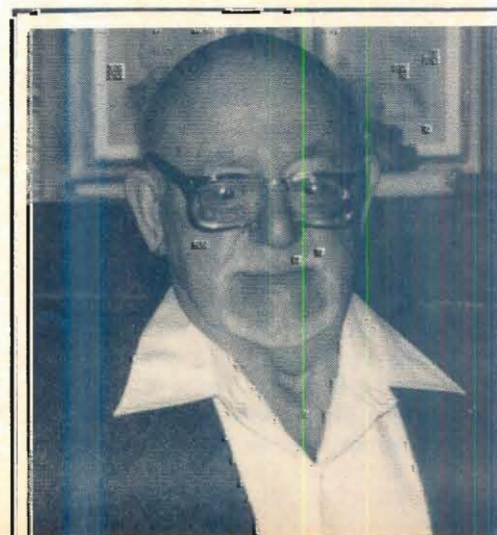
Q. It appears the Liberal left in America is tolerating, and sometimes espousing anti-Semitism. Why do you think so many Jews still support the leftist form of Liberalism?

A. It is for this very reason that I firmly believe that we harbor more stupid and naive people in our midst, than any other group of people. It amazes me how Liberal Jews have such short memories that today, they would be so supportive and involved in setting up the mechanics of gun control, so that a Holocaust can happen again. All they're doing is playing into the hands of the very clever communists who are masters at conning Americans.

Q. Why did you join JPFO?

A. I feel every Jew should be armed to the teeth, as should every American. I joined JPFO because as a group, we can stand up to Liberal Jewish gun haters and also to Gestapo-minded anti-gun police who want total control of the people. I wish JPFO was in existence years ago. I believe the Jewish involvement in gun control would not be anywhere close to what it is today, but better now than never. ●

Theodore Haas.



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Staff Report

A 27-year-old pharmacy technician from Pennsylvania won a Bernardelli PO18 9 millimeter semiautomatic pistol from Magnum Research in ASG's 1990 Giveaway No. 1 contest. Frank Dombroski of Warminster, Pennsylvania won the PO18 pistol, Prize No. 2 in the giveaway.

H. Pike of Colorado won Prize No. 1, the "Ultimate Pak" year's food supply from NITRO-PAK Survival Foods & Supplies.

Prize No. 3, a selection of unique pocket knives from B&D Trading Co., was won by Richard Mona of Newport Beach, California.

Steve Olsen of Bandera, Texas, won Prize No. 4, the SOG Tech bowie knife with sheath.

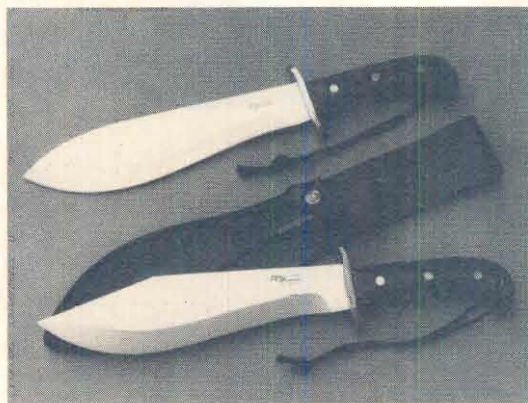
The Combat Survival Vest from FMCO, Prize No. 5 in the contest, was won by Jeff R. Price of Dumfries, Virginia. Price is serving in the U.S. Army.

Winners of ASG's 1990 Giveaway No. 2 contest have been drawn and will be announced shortly. See this issue for information on entering the 1990 Giveaway No. 3 contest to win an MK Arms MK 760 9 mm carbine, Viking Raider axe, Wenger Matterhorn Plus Swiss Army knife or other great prizes. •

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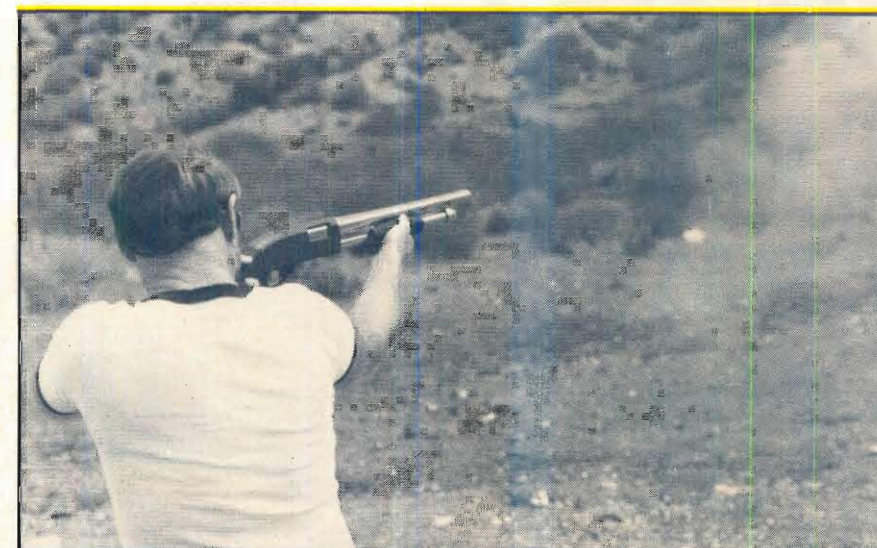
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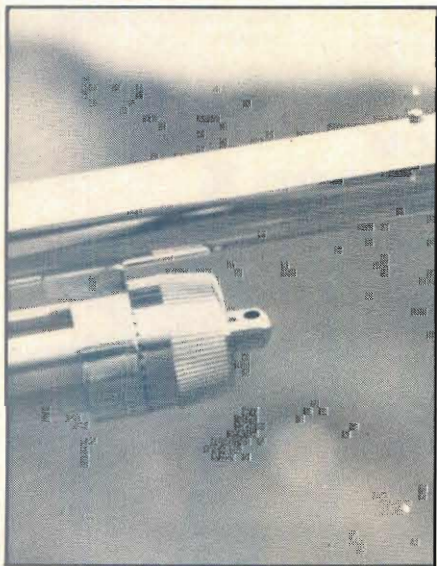


Stainless Marine

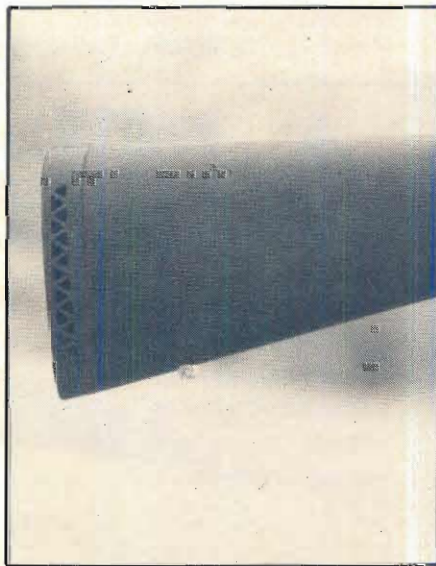
(Continued from page 24)



The 3/4-inch butt pad helps the shooter absorb recoil and is especially helpful with heavy loads such as buckshot, here.



Chrome sling swivel studs are standard.



empty with the pistol grip Winchester makes for this gun. With its legal limit short barrel, the Model 1300 is compact and easy to wield, making it a particularly attractive choice for use in home defense or the limited space of boats, and for storage.

We were loaned our test Stainless Marine from Beach Cities Armoury, Inc. (1103 Aviation Blvd., Hermosa Beach, CA 90254; 213-374-2227). This is one of three "Armoury Gun Stores" in Los Angeles County which offer shooters a wide selection of firearms,

ammunition and accessories, often at discount prices.

At The Range — In test firing the Model 1300, we used some ACTIV Red Hornet #7½ shot 2¾-inch dove and target shells, and Winchester Super X #4 shot and 1-oz. slug 2¾-inch shells as well as some 3-inch Magnum 000 Buckshot and 00 Buckshot loads.

We fired the gun with its full stock from the shoulder and hip and from the hip with pistol grip attached. It's possible to aim from the shoulder with

the pistol grip attached but there's too much recoil for me to fire this shotgun effectively in this manner except with birdshot loads and even then there's quite a kick.

After using the pistol grip I concluded that I prefer the full stock attached. It gives me much better control and accuracy and is a lot easier on the hands compared with the severe, bone-jarring kick you get when firing even lighter loads with the pistol grip. That rubber butt pad is indispensable when firing the buckshot loads.

Firing from 15 to 25 yards with the various 12 gauge ammunition we found the Stainless Marine to be an excellent performer and very accurate. The front brass bead sight is easy to see and simple to sight with. The aforementioned bolt system allows quick action for follow-up shots. In fact this shotgun will almost eject the spent shell itself after firing. The slide bars are that easy to operate.

We have not had the opportunity to see over time in a moisture-laden environment how well the Stainless Marine holds up but we like this gun so much one of us purchased it and we hope someday soon to try it out in this type of environment. We can see from its construction that this is a really well made shotgun and we have no reason to doubt the claims Winchester makes for the new anti-corrosion treatment.

If you're looking for a rugged, compact, reliable, accurate and strongly corrosion-resistant 12 gauge, you would do well to check out the Stainless Marine. ●

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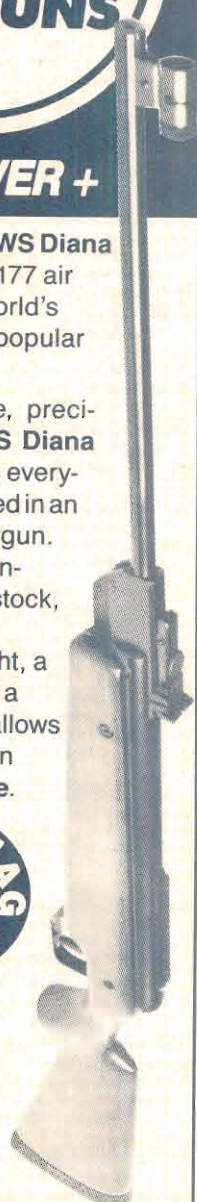
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Ground-to-Air Emergency Code (March 1986)

Ground-Air Codes

I read with interest Scott Stoddard's article "Staying Found" in the July issue. People who publish on survival subjects have a special obligation to be sure of their facts because others may rely on their advice in true survival situations. Unfortunately, Mr. Stoddard's advice on ground to air signals is out of date and erroneous. By 1985 the word had generally made its way around the serious survival community that the International Civil Aviation Organization had published new standard ground to air signals. In 1985 these were published in the Air Force standard survival manual and in 1986 in the National Search and Rescue Manual. The signals depicted in your publication are not in general use. As someone with more than a few hours of air search time and who does professional training for search and rescue personnel, I can tell you that virtually no SAR crew today will recognize them. The I and F signals cited have no meaning, X means "require medical assistance" and two Ls is very close to the remaining special SAR team signal meaning "all personnel accounted for." Persons using out of date signals may actually convey significantly wrong information to searchers.

Walter G. Green III
Anchorage, Alaska

Many survivalists stockpile government manuals for reference use later on. This is a lesson in using "up-to-date" materials. The signal codes we printed in the article were from a 1969 Air Force search and rescue survival manual. We also had a newer survival manual from the U.S. Army (March 1986) that has the correct codes used today. Unfortunately we didn't check

the newer manual. It would seem that codes as important as these would be set in concrete, and not changed and given different meanings. Sorry we were wrong.

HCI Tactics

I resent the implications of Handgun Control's *New York Times* ad showing a Klansman holding an AR-15. Owning a semi-automatic rifle does not make one a criminal in America. And vilifying the National Rifle Association will not prevent violence or deter crime. The rights of citizens to "keep and bear arms" are protected by the Second Amendment of the Constitution. We will fight for those rights and for our guns, and appreciate *American Survival Guide's* support.

Art Llebrez
San Rafael, California

Back to Basics

Bravo! Excellent! My congratulations on a job well done. First aid kits, survival kits, advanced medical equipment, summer emergencies... Wow, *ASG* is no longer a gun magazine in disguise. The August 1990 issue had something for everyone. With this kind of progress in true survival information, your critics will have to try a little harder if they want to write us all off as a bunch of gun-toting, paramilitary survivalists. After all, preserving life in a livable environment is what it's all about. Without food, medicine, and survival gear there is nothing for our guns to protect. Speaking of guns, I love them. If you know of any custom gunsmiths who are true survivalists, and build custom revolvers, pistols, rifles, and shotguns, maybe you could do an article on one of them each

month. Meanwhile, keep up the good work on the basics.

Ross Bartlett
El Cajon, California

ASG is definitely a gun magazine but it also presents a broad mix of survival related subjects, and that's what sets us apart from other firearms publications. Hopefully the survival information we present is neither too basic nor too technical for the interests of our readers.

Low-Impact Camping

I am writing to congratulate you on your article in the July 1990 *ASG* on "Low-Impact Camping." The writer did a fine job of impressing the need for maximum preservation of the earth. Camping in this manner will allow you to enjoy nature to the fullest by blending in and becoming like nature. It is much easier to enjoy nature by becoming a part of it rather than "conquering" it with large fires, lanterns, hollering and loud music. Parties have their place, but consistent behavior of this type indicates an insecurity and fear of nature. Low-profile camping will also greatly help you keep from receiving unwanted attention since you present and leave minimal evidence that you were there. This is good for survival situations as well as now considering not everyone in the boonies is out to enjoy nature in an ethereal fashion. Following these guidelines will greatly help your odds of not being located at the time or being tracked later. It should be pointed out that low-profile camping does not include cutting brush for camouflage and "digging-in." That leaves evidence and is destructive to nature.

Steven K. Morris
Rock Hill, South Carolina

Banning Assault Umbrellas

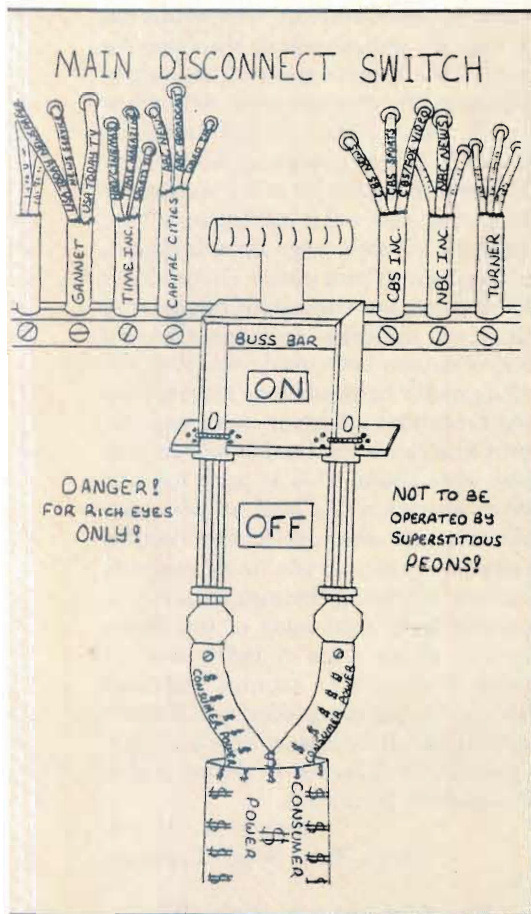
In the new socialist republic of Cleveland, Ohio, they are now starting other bans to match their gun bans. At the Cleveland Stadium (outdoor type) you can no longer have umbrellas when you go to see a concert event. On the 20th of July 1990 the stadium management decided that umbrellas are deadly weapons and anyone who has one on their possession will have it confiscated on site. What next? Pens, pencils, or maybe hard-heeled shoes? You never know when some nut might go off and start killing people in the crowd with these deadly weapons!

Kim Rodecker
Cleveland, Ohio ●

Consumer Power:

Doomsday Machine

'Take on the Spirit of '76 and break the tyranny of a holier-than-thou media controlled by evil people' . .



By Raymond Steele

WHAT would you do if you had a neighbor who hated you? And for no real reason! You paid your taxes, obeyed the laws, tried to help others, and were an all-around good citizen. But, you liked and enjoyed guns, and he didn't.

What if this same neighbor was rich and powerful, and owned the local newspapers, TV and radio stations, and even some magazines. To carry out his intense, unwarranted, even bigoted hatred of you (and your like-minded

friends) he began waging a campaign against you and your right to own and use your guns lawfully and peacefully, employing the various media he owns. Not an outright campaign at first, mind you, but by using subtle techniques of innuendos, distortions, and where possible, crafty lies, he defames you.

What if he stepped up his attacks on you to the point where your other neighbors, who had little knowledge of guns, were beginning to turn against you? They were afraid of those rapid-fire, high-power machine guns you kept in your closet. "But these aren't machine guns," you try to explain, "and they're not high-power. They're semi-automatics, the same type we've had for a century in this country."

But the bigots who work for Mr. Rich-and-Powerful won't let you be heard. They drown out your voice by using big-lie tactics, and stampede your neighbors with an unreasoning fear of guns. "But guns don't cause crime," you protest, "the courts no longer really punish criminals, and 'sociologist' judges and legislators turn them loose to prey on the innocent. Besides, crime and drugs have grown too big for easy solutions, so politicians want to use guns and gunowners as scapegoats to make themselves look good — that's the problem!"

The deafening roar of Mr. Rich-and-Powerful's media blitz is too overpowering. He focuses on criminals who abuse gun rights, ignoring or downplaying the true nature of crime, which is lawlessness. Public opinion has turned against you, and even those you voted into office to protect your gun rights are calling for laws that would turn you into a felon for technical violations. You can't believe it, but you pinch yourself and realize it's true. The gun mythopoeia and rabid anti-gun mythomania by the media has done its work.

What to do? Betrayed by those in high places who called themselves your friends, locked out by a bigoted, dishonest media who continually uses the power of print, sound and pictures to tell convincing lies about you, you feel helpless and enraged.

How to fight back? How to regain your good name that has been dragged through the mud, outrageously and most unfairly? How to respond when Mr. Rich-and-Powerful holds the keys to that powerful media doomsday machine that chews up everything in its path? It can't be stopped. Letters to editors and producers bounce off of it like stone-tipped arrows on a titanium hull. Protest marches are blacked out by the media. Perhaps a few letters are printed, and once in a great while an opposing view is aired, but it never reaches the headlines, or affects the mighty engine of destruction owned by Mr. Rich-and-Powerful. He and his cronies want your hide, and they won't stop until your blood flows.

Desperately you grope for answers. The old tried-and-true legislative lobby doesn't even seem to have much effect anymore, because of the mighty force of influence the media wields. And you've already concluded that they're unstoppable, *invincible*, even.

That night you have a dream. In it, you see the media doomsday machine before you. It is just as you had seen it in your mind's eye during your waking hours, but it is so very real now. Shaped like a great, cylindrical spaceship, it rests on pods over a metal apron. Its proportions are enormous, seeming to cover acres and acres of the field it is sitting in, and yet you are somehow able to move around it with ease and swiftness. The bright hull appears to be made of shining titanium. The front end opens to a fearsome, cavernous mouth, with which it scoops up living things in its path and swallows them whole in its huge gullet.

"Does it have any weakness?" You wonder. You step back and look at the fearsome gargantua. Covered with glamorous lights and emitting enticing sounds and images, it radiates seductive energy. Impressed by its sheer size and might, it's indestructible hull, its inexhaustible power source, you shake your head and laugh to yourself for thinking it could be beaten.

"Hey! Wait a minute! Did I say *inexhaustible* power source?" you mutter to yourself. Hardly yet daring to believe what your instincts suggest, you move around to the back of the juggernaut

Doomsday Machine

rightful place, and justice is practiced in every court in the land. It is a scene of wonder, delight, and serenity.

"So much confusion about what is right and wrong, good and evil, has been deliberately spread and perpetrated by the *masters of confusion controlling the media*," you say to your friends. "And they wouldn't stop until we forced them to." Your friends all nod in agreement, remembering the bitter sting they felt in almost losing their precious firearms freedoms through the deliberate deceit of the media.

"The only question I have," you say, an awesome expression coming to your face, "is why didn't we *pull the plug* sooner?"

The Dream and Reality — You awake. It was a dream. Yes, but what a dream. You sit up, wondering about the interpretation. Thinking back over the events, you realize that the machine itself is obviously the overbearing, ever-present media which so greatly influences modern life. The ghostly figures represent the editors, writers and reporters we put up with every day, who regard themselves as our self-appointed unelected representatives, a fourth branch of government, who through the constancy of their presence force their warped, twisted views on us. Brainwashing is not too strong of a word to describe their daily distortions of reality we are compelled to accept.

But the large cable coming from underground into the junction box. You wonder about that. It seemed to be the very source of power to the machine itself. And it was marked with the enigmatic words "CONSUMER POWER."

Then it hits you! Like a bolt of inspiration from the sky, understanding of the dream becomes crystal clear. Those lying words on printed pages, those lying voices coming from talking headshots of TV fops, the space and the time they are using *is not free!* Newspapers and magazines must be paid for, and the cover price is not nearly enough to pay for them. Television news programs costs hundreds of thousands, yes, millions of dollars of air time. Rich owners cannot pay those costs day-in and day-out by reaching into

Media Face-Off Kit Countering anti-gun propaganda . . .

"*THERE is nothing so absurd that if you repeat it often enough, people will believe it.*" — William James.

"*HAVE you ever wondered why people in the media constantly repeat the same anti-gun lies over and over, saying things any reasonably intelligent person knows is not true?*" asks the introduction to the "Media Face-Off Kit."

This, the introduction continues, is "simply because their mission is *not* to inform but to *brainwash!*" "Some pro-gunners say legislation alone is the answer to anti-gun influences, but they seem to forget that if the public is convinced semiautos are 'weapons of war,' they will support such ill-conceived bans. That is why you and I must take on the leftist media's anti-gun propaganda machine."

The Face-Off Kit then goes on to explain and help you do just that by establishing plans for organized boycotts of major media targets, providing their addresses and the addresses and names of their advertisers you can write and complain to and declare that you are boycotting them. The kit also includes form letters you can copy and sign and send to their advertisers declaring that you are boycotting them and urging others to do the same. You can copy and send these letters or use them as examples to write your own letters.

Organized economic boycotts of Big Media and their advertisers are a most effective way to counteract the leftist-dominated mass media's onslaught against firearms ownership.

Send \$3 today (to cover costs only) for your Media Face-Off Kit which you may then copy and send to your friends and other concerned citizens who wish to preserve freedom in this country. Order from Neal Knox's Firearms Coalition, P.O. Box 6537, Silver Spring, MD 20906. ●

their own pockets. They'd go broke.

"Whose pocket are they getting the money from then?" you wonder aloud. "Why, *from my own pocket!*" you realize with a start. "Advertisers pay big bucks for ads to be printed or shown on television. When those ads run, they count on you and me to buy their products. The money they pay to lying newspapers, magazines, and television news programs comes quite literally *from us*. We pay them to lie about us, and many times they make a *big profit* while they do it. How little we consumers realize our great power! Most advertisers bow to the almighty dollar, and we can *choose* who we give our dollars to!"

Suddenly you begin to grin . . . that grin broadens to a smile when you realize all that anyone has to do is come together in an *organized effort* target the most offensive television news shows, newspapers and magazines, and write letters, not just to their editors or producers, but to their *major advertisers*. Spell out your complaints, and inform them in so many words that you will take your business elsewhere if they don't do something about raising the journalistic standards of the media they choose to advertise in. Tell them that the only legitimate function of journalism is to fully inform, without bias, and let people decide for themselves. Tell them you will no longer pay to have your good name and reputation dragged through the mud. *Mean it and follow through.* What's a little discomfort compared to your firearms freedoms?

So, that's the answer, you realize, It will take some careful thought and planning, and leadership from prominent men and women in the shooting fraternity. It will take courage and commitment from gun rights organi-

zation and gun owners as well. But you see that we must have backbone, stand up and fight, and work together as one. You realize we stand at a precarious moment in time where we can break the back of the dangerously slanderous media, or we can cave-in and give up! And if we give up, the media *will* give us the deep six!

You're fighting mad because of all of the outrageous lies that have been told over the years about decent gun-owners, and especially in the last few months. You're willing to stir yourself up and put some time and effort, and yes even a little money into taking action, because you see that it's now or never. Politics are important, but they can only do so much. The *media itself must be dealt with directly*. If you hang together you can't be beaten, but if you cut and run you'll all surely hang separately, as Benjamin Franklin so correctly said.

What will your gunowner friends do? Will they get steel in their backbones and turn seeming failure into mad success, or will they turn soft and yellow and throw up their hands in defeat, and say, "All is lost, it won't work" and a thousand other copout excuses?

The message you would like to give to American gun owners is this, "Why don't you fight? You have nothing to lose and everything to win! Our founding fathers fought the bloody British and *won* when they tried to take their firearms, and in so doing established a new nation of freedom under God. Take on the Spirit of '76 and break the tyranny of a holier-than-thou media *controlled* by evil people who want to strip you of your rights. Victory is within our grasp, if we will just stand up and be counted, politically and in the marketplace."

What will you do? ●

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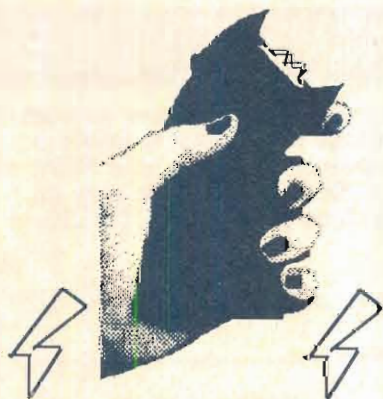
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AD INDEX

Adventurer's Outpost	39, 40, 41, 42
Airpower Sabot Cannons	43
Arizona Ballistics	11, 49
Atlanta Discount Ammo	63
B-Square	75
B.M.F. Activators	51
Benmar	63
Berkshire Mountain Trading	76
BK & T Corp.	61
Black Hawk Crossbows	76
Bowen Knife Co.	9
Brigade Quartermasters	38
Butokukai	33
C E P, Inc.	21
C. Crane Company	63
Catocin Cutlery	59, 67
China Diesel Imports	3
Cutlery Shoppe	45, 49, 51
Delta Press	45
Dutchman, The	7
Dynamit Nobel of America, Inc.	69
Emergency Essentials	C/2
Feather Enterprises	59
Federal Ordnance	63
Foothills Fastprint Photo ID	63
Foxhill Corp.	51
Frank's Center	76
Guardian Personal Security	47
Gunmachine	75
K.G. Products	63
L.L. Baston Company	61
Listen Electronics	76
Machine Gun News	10
Midwest Sport Distributors, Inc.	63, 75
Nitro-Pak Storage Foods	19
Northern Outfitters	C/4
Oregon Woodworks	45
Orpheus Industries	37
Paladin Press	5
Pat Crawford Knives	67
R & R Merchants	75
Ready Reserve Foods	75
Rhino Replacement Parts	63
Savage Edge, The	49
Shomer-Tec	63
SI/Survival, Inc.	9
Sierra Supply	47
SOG Specialty Knives	69
Southern Cross Survival Systems	23
Southern Ordnance	45
Special Productions	59
Spyderco	11
Spye Knife Company	43
Steve Arnold's Gunroom	35
Survival Books/Larder Book	75
Survival Center, The	69
TF Enterprises	63
U.S. Cavalry	63
Warrior Films International	69

HK91/93/94 or MP5 (All Variations)



B-Square has a new Military Mount for the HK91/93/94, MP5, etc. - the new mount simply 'snaps' over the gun's receiver and locks with a single knob. It can be quickly removed and replaced without zero change. Also the gun's sights can be used with scope installed. The mount is complete with one-inch (1") standard dovetail scope rings and Military Nato Stanag scopes can also be installed. The standard dovetail also allows Laser and electronic devices to be used.

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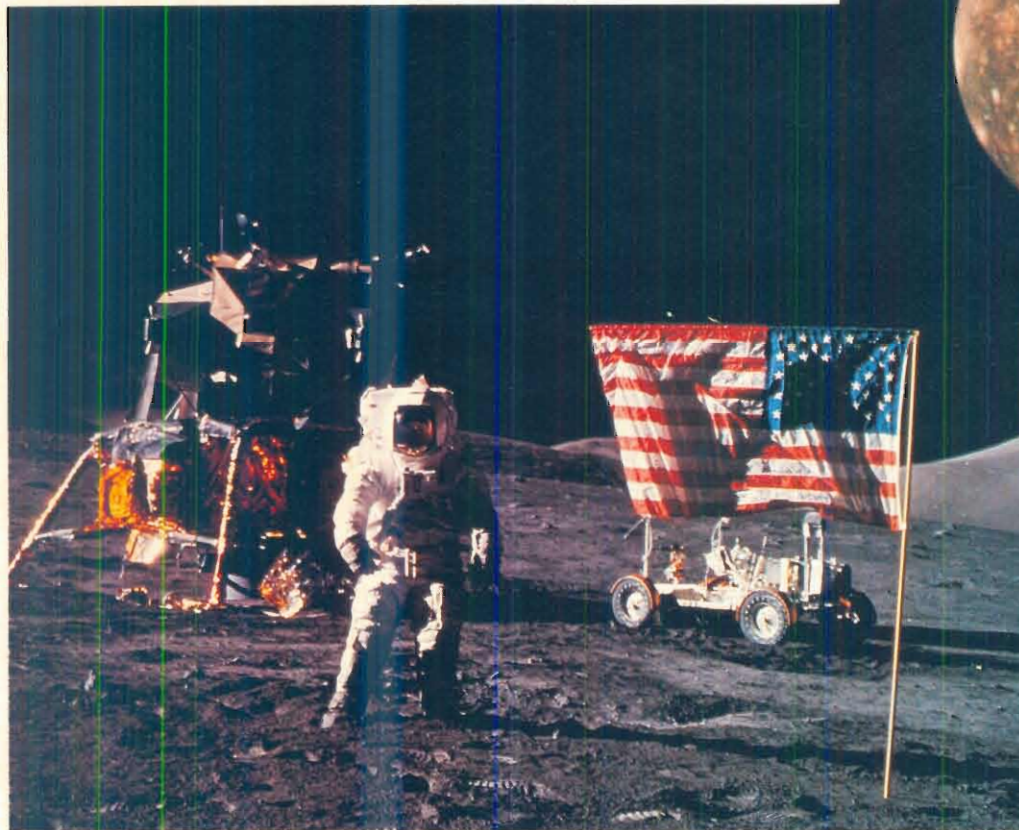
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Survival In Space

(Continued from page 55)



At home in the heavens. In the not-too-distant future more human beings will be employed in space than on the home planet, mining small planets and asteroids. Pictured here is Callisto. Photo courtesy NASA

The Moon was once the goal, but by the end of the first decade of the 21st century it will serve as the major jumping off point to distant planets beyond. NASA photo

Uranus. It's possible that man may have expanded this far in the next fifty to seventy-five years.

From these remote outposts of civilization, huge space telescopes can be constructed enabling us to search the galaxy for evidence of water and hospitable atmospheric gases that could herald the existence of non-terrestrial life similar to our own. And from there, man will launch himself into the next great phase of his immigration, to new star systems, and new galaxies.

The Universe will be "conquered" not by star fleets traveling at warp speed with velocities equalling or excelling the speed of light, but at a relative turtle's pace, "grazing" across the limitless resources of space. The fastest man-made probe travels at only one-twenty thousandth the speed of light, and the nearest star, *Alpha Centauri*, is 4.3 light years away. That means a traveling time, at our present technology, of 86,000 years to reach the nearest neighboring solar system.

It will be a new breed of human that journeys away from our sun, colonists with an entirely different basis of understanding than the old breed. This new race will have been born in space, conditioned to their man-made environments from birth, and will not perceive the confinement of their voyaging homes. In fact, exploration will be far easier for them than during any previous mass immigration phase in Earth history, for they'll never be required to leave "home," always having it with

them.

But what of the first voyagers who will set out on those 20-month journeys, where will we find such people today? They will be that same sort who willingly join the Navy for four years, or those men who once signed away eight years of their lives to sail away on soot-covered whalers. There has never been a shortage of the right type of people to answer the call of adventure. I'd go in a heartbeat.

But what of economics? Although the long-term benefits of space exploration are absolutely vital, the big question is are the short-term benefits enticing enough to allow the consent of the masses to appropriate adequate taxes to cover the initial costs? Education will be the key there. Even the fantastic vision just pictured, from the settlement of the Moon and Mars to the exploitation of the Asteroid Belt can all be completed in the next fifty years on a budget using only one-half the GNP (gross national product) of the U.S. that was used during the Apollo missions of the sixties; a project of which we are still reaping the rewards. From the portable life-support systems of paramedics to osteoporosis research, from telecommunications satellites to hurricane early warning systems, all these are side benefits of space technology.

Alas, too many self-proclaimed philanthropists cry out that the future of man would be more secure if we were to funnel our taxes into our poor and homeless instead. To counter that, I leave them with a quote from the

West's best known philanthropist, Jesus Christ: "The poor will always be among us." The realities of life are thus: hand a poor society money and create a poor society that can much more easily afford such self-destructive goods as alcohol and drugs.

Aerospace and its ancillary corporations represent the bread and butter of all modern men. In densely populated Southern California alone, it accounts for one in three jobs. It is an industry with ever tightening drug and alcohol abuse screening programs, forcing a healthier lifestyle among those reaping its financial rewards.

As it is building a better man on Earth, so it will be producing a better man in space. Living in self-contained biospheres, cooperation will be a much more beneficial trait than competition. Genius and labor will be pooled not for mere individual economic gains, but for the collective colony as a whole, weeding out such undesirable side-effects in capitalism as greed and its associated crimes. There will be no poor and homeless in space.

The entire distribution of wealth will undergo radical change. The present pattern of Earth-wealth distribution is, The rich get richer, the poor get poorer. The National Space Commission puts it best, "... successful mineral and energy enterprises in space would signal that increasing abundance, rather than redistributing scarcity, is the wave of the future." The settlement of space is man's destiny. We can't afford not to and expect to survive. ●

ASG 1990 Giveaway No. 3

Prize No. 1



The MK 760 9 millimeter semiautomatic carbine from MK Arms, Inc., Dept. ASG, P.O. Box 16411, Irvine, CA 92713; (714) 261-2767. Based on the design of the famous "Swedish K" M45

Carl Gustaf and Smith & Wesson M76 blow-back operated submachine guns, the MK 760 is almost identical to the S&W M76 except for the semiautomatic parts and some improvements

in materials. The receiver is machined from DOM steel tubing and barrel, bolt and other impact parts are AISI 4140 steel (with molybdenum and carbon in it). Pistol grip is glass filled nylon (Minlon). Folding stock is steel and entire gun has a zinc phosphate parkerized military grey coating for corrosion resistance. 36-, 24- and 14-round magazines are available for the gun along with numerous other accessories, including padded nylon carrying case, magazine pouches, short (sub-machine gun) display barrels, padded carry slings, tee shirts and sweat shirts with MK Arms logos. Some of these items are shown here. The giveaway prize includes ONLY the carbine itself and one 36-round magazine. MK Arms also makes and sells the MK 760 select-fire submachine gun (available to authorized law enforcement and military personnel only) and has submitted for BATF approval a semiauto pistol version of the carbine. Retail value of the MK 760 Carbine is \$575.

Fill out the accompanying coupon, and include payment with subscription orders or current subscription extensions. All ASG 1990 Giveaway No. 3 entries should be printed or typewritten on the official coupon, or a reasonable facsimile from this magazine. A facsimile entry is acceptable and valid, as long as it contains information required with the subscription or extension order/entry form. The ASG Giveaway is open to any resident of the United States. Federal law requires that only U.S. citizens are eligible to receive a firearm prize. The prize winner must not be legally restricted from receiving or possessing a firearm. This contest offer is void where prohibited

by law. Employees of McMullen Publishing and its subsidiaries or subordinate agencies, agents and members of their immediate families, are not eligible to enter the contest. There is a LIMIT OF ONE ENTRY PER PERSON for this contest. Duplicate and/or multiple-copy entries, when detected, will be disqualified and discarded. The prize winner will be selected in a random drawing of the coupons submitted for this contest. The drawing will be conducted at 2 p.m. December 28, 1990. Entries received after December 27, 1990 at 4 p.m. will be invalidated and discarded, though subscription orders will be honored by McMullen Publishing. The prize winner will be

notified by telephone and/or mail within one week of the drawing. The firearm prize winner will be required to arrange with a local federally licensed firearms dealer to accept delivery of the prize. The winner will be required by the firearms dealer accepting the prize to fill out all necessary federal, state and/or local firearm purchase and/or transfer forms. To receive this prize, the winner must meet ALL federal, state and/or local requirements for firearms ownership. The winner must be 18 years of age or older. NO EXCEPTIONS.

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Prize No. 2

The Viking Raider from Blackjack Knives, Dept. ASG, 7210 Jordan Ave., #D-72, Canoga Park, CA 91303; (818) 902-9853. Based on the design of an actual 7th century Viking war axe, the Viking Raider offers several modern use advantages. This 15-inch overall, 7-inch cutting edge tool is all one piece of 400 series high carbon chrome-vanadium stainless steel. The comfortable 90 durometer black Kraton handle is injection molded directly onto the fully enclosed tang. The axe comes with a high quality leather belt (2½-inch loop) sheath for carrying this literally razor sharp (use caution handling) cutting/chopping tool. The back of the axe has a handy gut hook/rope cutter which will sever thick hemp or nylon rope in one quick swipe. The Viking Raider has a broad "sweet spot" or area of maximum cutting surface. Weight is 25 ounces and it's 3/16-inch thick. Retail value: \$130.



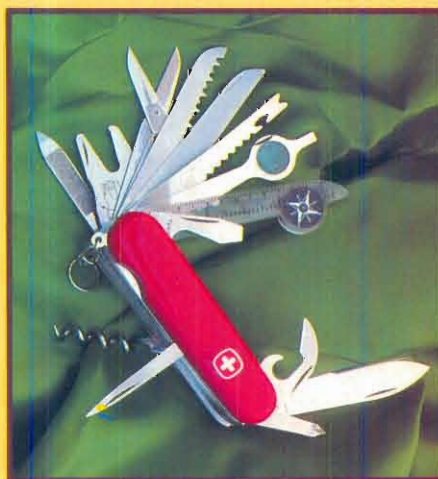
Prize No. 3

Food Saver II home vacuum packing system from NITRO-PAK Survival Foods & Supplies, Dept. ASG, 13243 E. Rosecrans Ave., Santa Fe Springs, CA 90670-4940; (800) 866-4876. With the Food Saver's vacuum packaging it's possible to enjoy the savings of buying in bulk without food waste. It comes with an attachment to vacuum seal wide-mouth jars using Ball or Kerr lids in seconds. Perfect for packing up fresh or dehydrated foods into convenient meal-size servings till ready to use. Food Saver measures 5½ inches high by 19 inches long by 6½ inches wide. It is a certified factory reconditioned unit in virtually new condition and includes the wide mouth jar sealing attachment and two rolls of bags — one 8 inches and one 11 inches. One year manufacturer's warranty. Value: \$200.



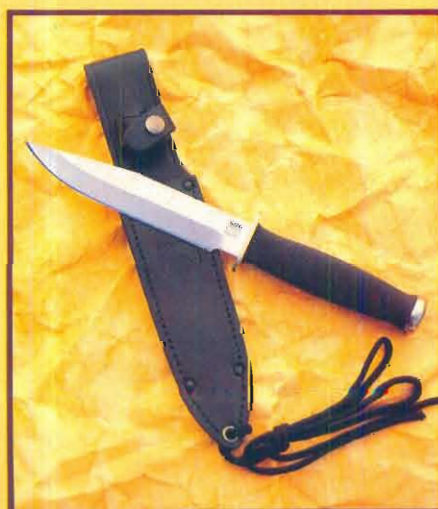
Prize No. 4

A one month's supply for one person (or two weeks for two) of delicious AlpineAire Gourmet Reserves storage food from NITRO-PAK Survival Foods & Supplies, Dept. ASG, 13243 E. Rosecrans Ave., Santa Fe Springs, CA 90670-4940; (800) 866-4876. An established industry leader of quality, all-natural recreational foods, AlpineAire has set the standards for delicious, nourishing yet cost-effective foods that are easy to prepare under any circumstances. These foods have accompanied outdoors adventurers to the world most remote locations. AlpineAire is committed to producing only quality products that promote good health and well-being. Gourmet Reserves is free of preservatives, artificial colors or flavors, refined sugars and MSG, and salt is kept to a minimum. State-of-the-art equipment insures longest possible shelf life. Oxygen is virtually eliminated from the cans with the innovative AireTite System. The prize includes 14 #10 cans of freeze-dried gourmet meals that are easy to prepare meals including Teriyaki Turkey, Potatoes with Cheddar & Chives, Spaghetti & Mushroom Sauce, Blueberry Granola, Apple-Almond Crisp, Pilot Bread and more. Shelf life is up to 15 years. Individual pouches (4-year shelf life) and larger supplies of the Gourmet Reserves foods are also available from NITRO-PAK. Retail value of this prize is \$200.



Prize No. 5

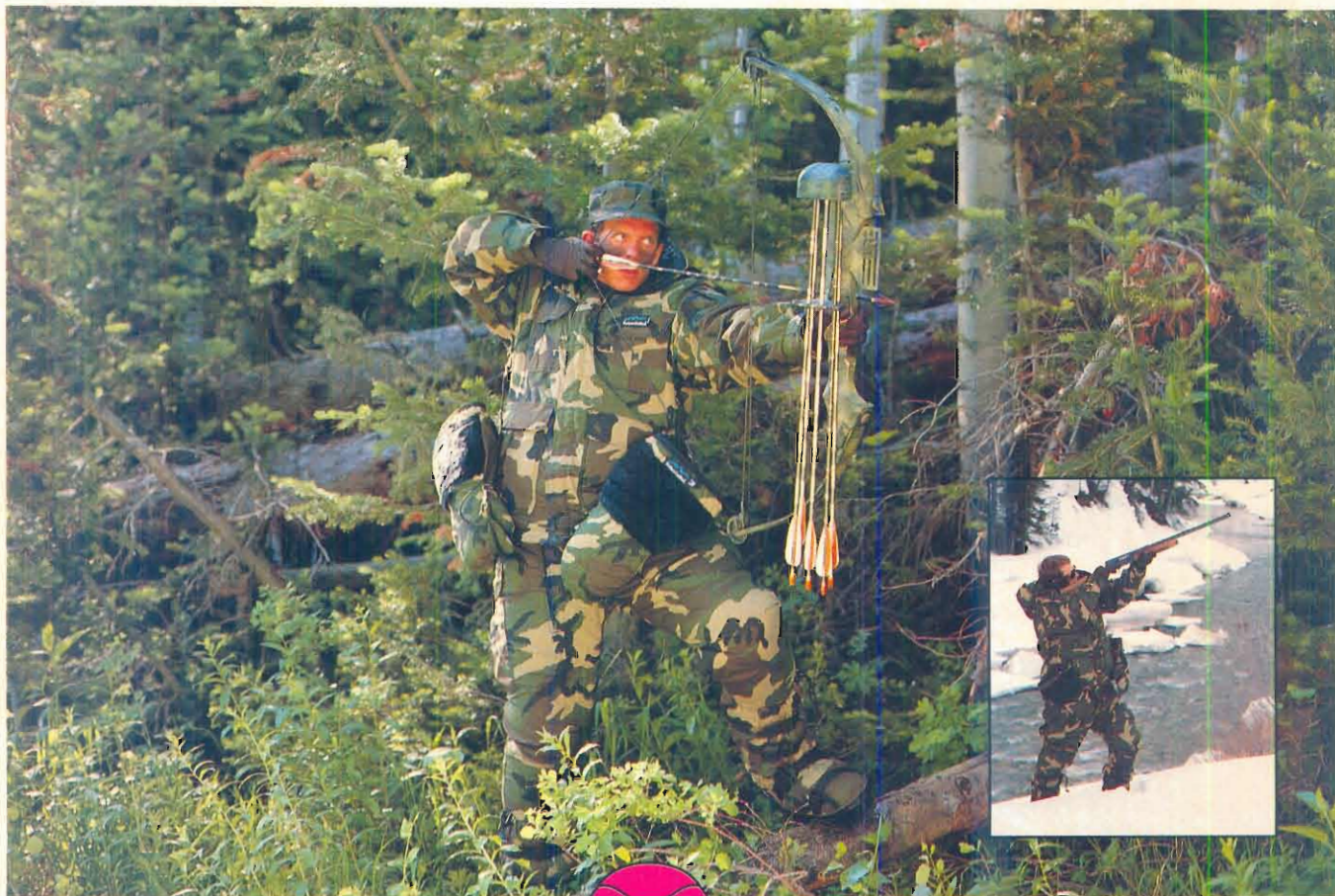
The Wenger Matterhorn Plus Swiss Army Knife, also called the Pocket Tool Chest, from SI Outdoor Food & Equipment, Dept. ASG, 435 W. Alondra Blvd., Gardena, CA 90248; (213) 324-8859 or 8855; toll free outside California (800) 533-7415. This model is the top of the line, featuring the most functions and the widest variety of uses of a Swiss Army knife. Includes main blade, sawtooth blade, scissors, Phillips and flathead screwdrivers, metal and nail files, awl, corkscrew, fish scaler and hook remover, universal wrench, can and bottle opener, magnifying lens, ruler and compass, toothpick and tweezers. Value: \$75.



Prize No. 6

Government model knife from SOG Specialty Knives, Dept. ASG, P.O. 1024, Edmonds, WA 98020; (206) 771-6230. A high quality field knife with a very reasonable price. All steel construction with wrap-around checkered black Kraton handle. The short steel crossguard guarantees a barrier between hand and blade but allows for a forward finger position when extra pressure or leverage is needed. The steel pommel enables the knife to be a field hammer or to be hammered. Blade is 6¼ inches. Overall length is 11¼ inches. Weight is only 8½ ounces. A handsome black leather ambidextrous sheath adds only another 3 ounces of weight. Value: \$70.

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